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107C

Electronic User's Manual

Safety and Troubleshooting Information

Safety Precautions and Maintenance • Troubleshooting • Regulatory Information • Other Related Information

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Safety precautions and maintenance

WARNING: Use of controls, adjustments, or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards, and/or mechanical hazards.

Read and follow these instructions when connecting and using your computer monitor:

- Disconnect the monitor from the power supply if the monitor is not to be used for an extended period of time.
- Do not attempt to remove the back cover, as you will be exposed to a shock hazard. The back cover should only be removed by qualified service personnel.
- Do not place objects on top of the monitor cabinet, objects could fall into vents or cover them and prevent proper cooling of the monitor's electronic devices.
- To avoid the risk of shock or permanent damage to the set, do not expose the monitor to rain or excessive moisture.
- Do not use alcohol or ammonia-based liquid to clean the monitor. If necessary, clean with a slightly damp cloth. Disconnect the monitor from the power supply before cleaning.
- When positioning the monitor, make sure the power plug and outlet are easily accessible.

Consult a service technician if the monitor does not operate normally when operating instructions of this manual are followed.

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About This Electronic User's Manual

About This Guide • Other Documents You May Need • Notational Descriptions

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About This Guide

This electronic user's guide is intended for anyone who uses the Philips Color Monitor. It describes the monitor's features, setup, operation and all other information, which is the same exact information described in our printed version.

The sections are as follows:

- Safety and Troubleshooting Information provides tips and solutions for common problems, and other related information you may need.
- About This Electronic User's Manual gives an overview of what information are included as well as notation icon descriptions and other documentation you can refer to.
- Product Information gives an overview of the monitor's features and as well as the technical specifications for this monitor.
- Installing Your Monitor describes the initial setup process and gives an overview of how to use the monitor.
- On Screen Display provides information on adjusting the settings on your monitor.
- Customer Care and Warranty is a list of worldwide Philips consumer information centers along with the help desk phone numbers and information on the applicable warranty of your product..
- Glossary provides more information for technical terms.
- Download allows users to install the entire manual on their hard drive.
- Frequently Asked Questions provides answers to commonly asked questions.

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Other Documents You May Need

In addition to this *Electronic User's Guide*, you may need to refer to the following documentation:

- *Philips Color Monitor Quick Start Guide* which summarizes the steps for setting up the monitor. This is included with this product.

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Notational Descriptions

The following subsections describe notational conventions used in this document.

Notes, Cautions, and Warnings

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold type or in italic type. These blocks are notes, cautions, and warnings, and they are used as follows:

NOTE: This icon indicates important information and tips that help you make better use of your computer system.

CAUTION: This icon indicates information that tells you how to avoid either potential damage to hardware or loss of data.

WARNING: This icon indicates the potential for bodily harm and tells you how to avoid the problem.

SMART HELP: This icon indicates helpful information when adjusting the On Screen Display of your monitor.

Some warnings may appear in alternate formats and may be unaccompanied by an icon. In such cases, the specific presentation of the warning is mandated by regulatory authority.

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Product Information

Product Features • LightFrame™ for Windows • Technical Specifications • Automatic Power Saving • Physical Specification • Pin Assignment • Product Views

---

Product Features

Model	Regulation	Color
107C53	TCO'03	Silver/Black
107C54	TCO'99	Silver/Black
107C55	TCO'99	Black

107C5

- 17-inch (16.0" VIS) color monitor with excellent front of screen performance for use with MACs and PCs
- Autoscan covers horizontal frequencies up to 71 kHz offering a maximum resolution of 1280 x 1024 with flicker free display of 1024 x 768 at up to 89 Hz.
- Real Flat High Contrast CRT with high-resolution 0.25 mm dot pitch (0.21 hdp)
- LightFrame™ for brightest and sharpest display of movie and photo windows.
- Large screen display in a small footprint: 17-inch conventional monitor with maximum depth of only 424 mm/16.7"
- sRGB for true on screen color representation.
- FCC, CE (in selected countries only) and ISO9241, ISO14001 certified

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LightFrame™ for Windows

Introduction
Philips LightFrame™ feature enriches the experience of pictures and video on a Philips CRT (picture tube) monitor. LightFrame™ will boost the brightness and sharpness of photos and videos on the monitor screen.

To control the LightFrame™ feature in your monitor, you have to install the LightFrame™ application which you will find on this CD-ROM.

Note
Philips LightFrame™ will only work with monitors that have been built to use this software. Earlier Philips monitors or other manufacturers' monitors will not work with this special software. It is recommended that you install this software only on a Philips monitor designed to use it. These monitors can be identified by the LightFrame™ logo on the front of the monitor.

This software is not designed for use with LCD flat screen monitors.

LightFrame™ will work with true Windows-based programs and DOS-based programs that operate in a Windows environment. It will not work with DOS-based programs operating only in a DOS environment.

Language Selection

While English is the default language of LightFrame™, the User Interface can be set up to operate in Dutch, French, German, Italian, Portuguese, Spanish, Simplified Chinese, Traditional Chinese or Korean.

Installation

1) To install LightFrame™, place the CD in the CD-ROM drive.

2) Next, when the menu of items on the CD appears on your screen, click on 'Install LightFrame™'.

3) Now, follow the on-screen prompts to properly install the program. The software checks to see if you have a compatible monitor. You must agree to the license agreement terms for the software to install.

4) After installation, LightFrame™ automatically loads and the icon appears in the taskbar.

Notes

If LightFrame™ detects that your monitor is not LightFrame™ compatible, a message appears on the monitor screen. If you see this message, you can select to abort or continue the installation. However, if you continue the installation, LightFrame™ will probably not work on the monitor.

How to use LightFrame™

After installation, LightFrame™ starts up automatically whenever the computer is started.

For information about using LightFrame™ please refer to the help information which is available after installation.

Compatibility
This version of LightFrame™ is compatible with
Windows® 95
Windows® 98
Windows® Me (Millenium Edition)
Windows® XP
Windows® 2000 Professional Edition.

LightFrame™ 3 -- Frequently Asked Questions (and answers)

LightFrame™

Q: Is LightFrame™ 2 compatible with LightFrame™ 3?

A: No. If you run LightFrame&trade**;** 1 or 2 software with a Philips LightFrame™ 3 monitor, nothing will happen.

Q:Can I use LightFrame™ 3 software on my LightFrame™ 1 / 2 monitor.

A:No for a LightFrame™ 1 or 2 monitor you need to use LightFrame™ 1 or 2 software. It is however possible to use the LightFrame™ 2 software on a LightFrame™ 1 monitor.

Q:What is the difference between LightFrame™ 1, LightFrame™ 2 and LightFrame™ 3?

A:LightFrame™ 1 was the very first generation of the LightFrame™ feature introduced by Philips. In that version the user needs to manually turn on/off the feature and select the window or area to apply it to.

LightFrame™ 2 offers the automatic detection in Internet Explorer on top of the LightFrame™ 1 functions. With this feature LightFrame™ will automatically scan a web page in Internet Explorer, find the largest picture and enhance it.
LightFrame™ 3 offers everything that LightFrame™ 2 has but now with the possibility to enhance multiple pictures at the same time. So in a web page LightFrame™ will find all the pictures and enhance them simultaneously or in a photo viewing application you can enhance multiple photos at once. Furthermore LightFrame™ 3 comes with an easy to activate full screen function. This is especially handy for games and movies. Just one click on the full screen button and LightFrame™ enhances your total monitor.

Q:Can I upgrade my current Philips monitor to LightFrame™ 3?

A:No. For LightFrame™ 3 Philips developed special hardware which is build into the monitor. Therefore upgrading from LightFrame™ 1 or 2 to 3 is not possible. It is however possible to upgrade your LightFrame™ 1 monitor to LightFrame™ 2 by installing the LightFrame™ 2 software.

Q:Can I install LightFrame™ 3 over an older version?

A:When you install LightFrame™ 3 the setup wizard will scan your system to check if you have an older version installed. If so, the setup wizard will remove that version before continuing with the installation of the new version. Please be aware that for LightFrame™ 3 you also need a monitor

which is capable of running the LightFrame™ 3 feature.

Q:How can I tell which version LightFrame™ my monitor can support?

A:To check which version of LightFrame™ is supported by your monitor check the LightFrame logo which you will find on the top, right-hand corner of the monitor. If this logo has a small 3 in it, your monitor is ready for LightFrame™ 3. Otherwise you should use the LightFrame™ 1 or 2 software.

Q: How many windows can I enhance at the same time?

A:In LightFrame™ 3 it is possible to enhance up to 8 windows at the same time. It is however important to understand that when other windows, toolbars or menus overlap the enhanced windows, the maximum number of enhanced windows can be less.

Q:How many pictures can LightFrame™ enhance in Internet Explorer?

A:In Internet Explorer LightFrame™ 3 can enhance up to 16 pictures at the same time. LightFrame™ 3 filters the pictures it finds based on the minimum size of the picture therefore it may happen that some pictures are not enhanced when you open a web page.

Q:Can I enhance two or more area's at the same time?

A:Yes. With LightFrame™ 3 you have the possibility to select several windows with pictures and videos and enhance them at the same time.

Q:Some times my mouse changes to a light bulb with a plus sign and sometimes with a minus sign. What is the difference?

A:The mouse pointer in the shape of a light bulb indicates that LightFrame™ is ready to accept a selection from you for which window should be enhanced.
If there is a minus sign it means that you are moving over a window where LightFrame™ is already active and clicking this window will switch the enhancement off. A plus sign appears when moving over a window which is not enhanced and clicking that one will enable LightFrame™ on that window.

Q:What is wrong when my mouse changes into a light bulb with a red cross?

A:Nothing. It just means that your mouse moves outside the application where you already have one or more windows enhanced. You can only select windows with in the same application. The cross indicates that you move into an area where you cannot make a selection.

Q:Can I use LightFrame™ with Netscape?

A: You can use LightFrame™ with Netscape, but its functions are limited to manually highlighting the entire Netscape client window. Since LightFrame™ is specifically designed for bright, high contrast photo and video display, highlighting an entire Web page -- including text -- is not recommended.

For best results, we recommend you use LightFrame™ with Microsoft Internet Explorer version 5.0 or higher. You can downloaded Internet Explorer free of charge from the Microsoft website (www.microsoft.com). A copy of Internet Explorer 5.5 is also included on the CD-ROM shipped with your monitor.

Q:Can I activate LightFrame™ on my entire screen?

A:Yes you can. And with LightFrame™ 3 this becomes even easier. There are three ways to do this: 1) click the full screen button in the LightFrame control bar with your mouse. 2) Press the "windows" hotkey on your keyboard and press "L". 3) Via the OSD menu, scroll to Extra controls, press "OK", then LightFrame On.

Q:When I apply LightFrame™ to a text document I get blurry characters, what is wrong?

A:Nothing is wrong. The effect which you see is due to the sharpness enhancement that LightFrame™ is doing on your monitor. This sharpness improves a photo or video significantly however on black text on a light background the effect is less favorable. Please keep in mind that LightFrame™ is developed to enhance your photos and videos and not really for text or synthetic pictures.
You can decrease this effect by lowering the sharpness setting in the LightFrame™ 3 control panel.

Q: How can I tell if my monitor comes with LightFrame™ 3?

A: All Philips LightFrame™ 3 monitors display this logo on their front bezel:

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Technical Specifications*

CRT

• Size and deflection	17 inch / 41 cm ; 90° deflection angle
• Dot pitch	0.25 mm
• Horizontal pitch	0.21 mm
• Tube type	Shadow mask, Real Flat, high contrast, anti-glare, anti-static, anti reflection
• Phosphor	P22
• Recommended display area	12.0" x 9.0" / 306 x 230 mm
• Maximum display area	12.8" x 9.6" / 325 x 244 mm

SCANNING

• Horizontal scanning	30 - 71 KHz
• Vertical scanning	50 - 160 Hz

VIDEO

• Video dot rate	120 MHz
• Input impedance	
- Video	75 ohm
- Sync	4.7 kOhm
• Input signal levels	0.7 Vpp
• Sync input signal	Separate sync
• Sync polarities	Positive and negative

WHITE COLOR TEMPERATURE

Chromaticity CIE coordinates:

• at 9300 degrees K	x = 0.283 / y = 0.297
• at 6500 degrees K	x = 0.313 / y = 0.329
• at sRGB	x = 0.313 / y = 0.329

sRGB

sRGB is a standard for ensuring correct exchange of colors between different devices (e.g. digital cameras, monitors, printers, scanners, etc.)

Using a standard unified color space, sRGB will help represent pictures taken by an sRGB compatible device correctly on your sRGB enabled Philips monitors. In that way, the colors are calibrated and you can rely on the correctness of the colors shown on your screen.

Important with the use of sRGB is that the brightness and contrast of your monitor is fixed to a predefined setting as well as the color gamut. Therefore it is important to select the sRGB setting in the monitor's OSD.

To do so, open the OSD by pressing the OK button on the front of your monitor. Use the down button to go to Color temperature and press OK again. Then move the down button to go to sRGB and press OK again.

Exit this OSD.

After this, please don't change the brightness or contrast setting of your monitor. If you change either of these, the monitor will exit the sRGB mode and go to a color temperature setting of 6500K.

For more information on sRGB, please visit: www.srgb.com

** These information are subject to change without notice.*

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Automatic Power Saving

If you have VESA's DPMS compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. And if an input from a keyboard, mouse or other input device is detected, the monitor will automatically "wake up". The following table shows the power consumption and signaling of this automatic power saving features:

Power Management Definition						
VESA's Mode	Video	H-sync	V-sync	Power Used	Power Saving (%)	LED color
ON	Active	Yes	Yes	Typical 68 W	0 %	Green
OFF	Blanked	No	No	< 1W	99%	Flashing Green

This monitor is ENERGY STAR® compliant. As an ENERGY STAR® Partner, PHILIPS has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

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Physical Specifications

• Dimensions	15.6" x 15.9" x 16.7" / 397 x 405 x 424 mm (including base) 15.6" x 13.1" x 16.7" / 397 x 333 x 424 mm (excluding base)
• Weight	15.8 kg
• Power supply	100-240 VAC, 60-50Hz (Please refer to rating label)
• Temperature (operating)	0° to 40°C / 32° to 104°F
• Temperature (storage)	-25° to +65°C / -13° to +149°F
• Relative humidity(storage)	5% to 95%

** Resolution 1280 x 1024, standard size, contrast max., brightness 50%, 9300°, full white pattern.*

** These information are subject to change without notice.*

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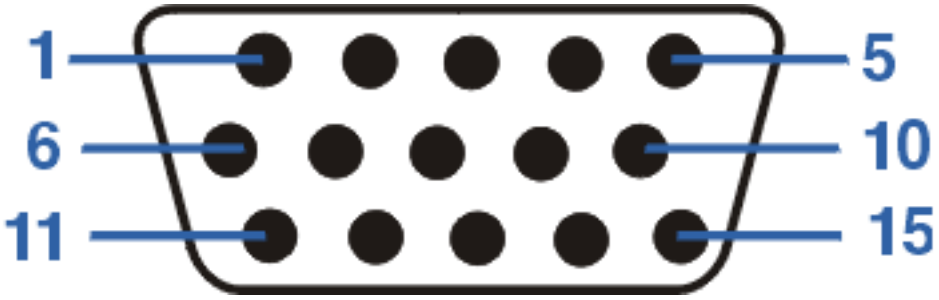
Pin Assignment

The 15-pin D-sub connector (male) of the signal cable (IBM systems):



Pin No.	Assignment		Pin No.	Assignment
1	Red video input		9	+5V DDC supply
2	Green video input		10	Logic ground
3	Blue video input		11	Identical output - connected to pin 10
4	Identical output - connected to pin 10		12	Serial data line (SDA)
5	Ground		13	H. Sync / H+V
6	Red video ground		14	V. Sync (VCLK for DDC)
7	Green video ground		15	Data clock line (SCL)
8	Blue video ground			

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Views

Follow the links to see various views of the monitor and its components.

Front View

Rear View

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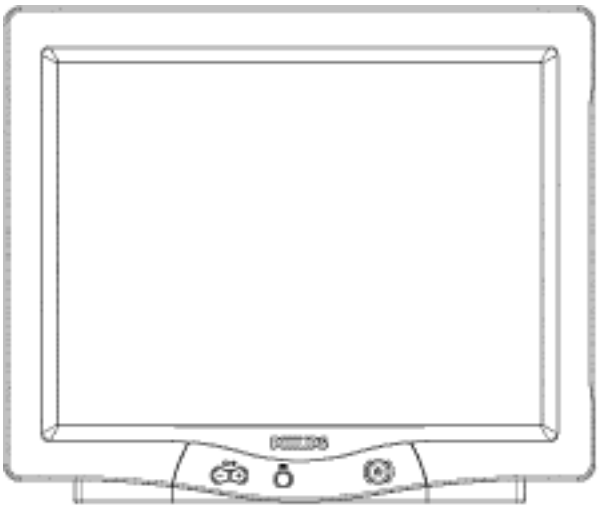
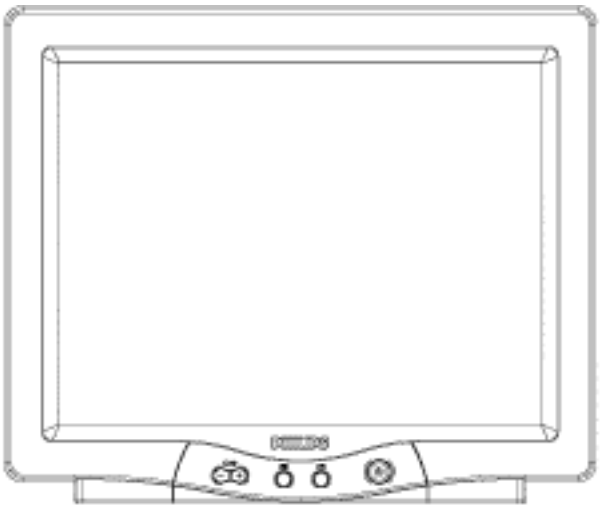
Installing your Monitor

Front View • Rear View • 6G3B11 Multimedia Base (option)

Front View



107E5/107G5/107S5/107X5



107B5/107C5/107F5/107T5

Power button switches your monitor on.

OK button which when pressed will take you to the OSD controls

Contrast hotkey. When the "-" button is pressed, the adjustment controls for the CONTRAST will show up.

Brightness hotkey. When the "+" button is pressed, the adjustment controls for BRIGHTNESS will show up.

"-" and "+" buttons, are used for adjusting the OSD of your monitor.

LightFrame™ hotkey. When the button is pressed, the high-brightness function of LightFrame™ will show up.

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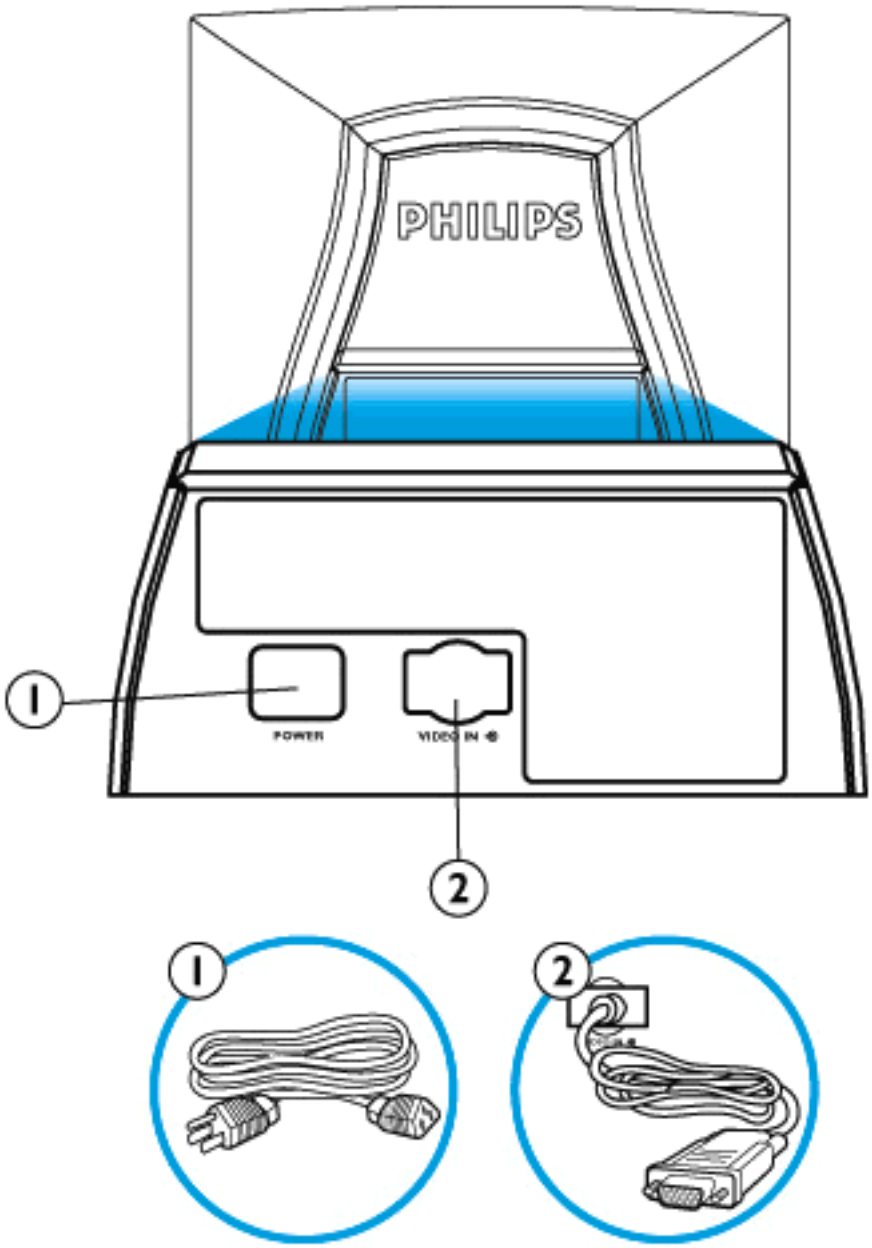
Rear View



1. Power in - attach power cable here.
2. Video In - this is a cable which is already attached to your monitor. Connect the other end of the cable to your PC.

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On-Screen Display

Description of the On-Screen Display • The OSD Tree • The OSD Controls

---

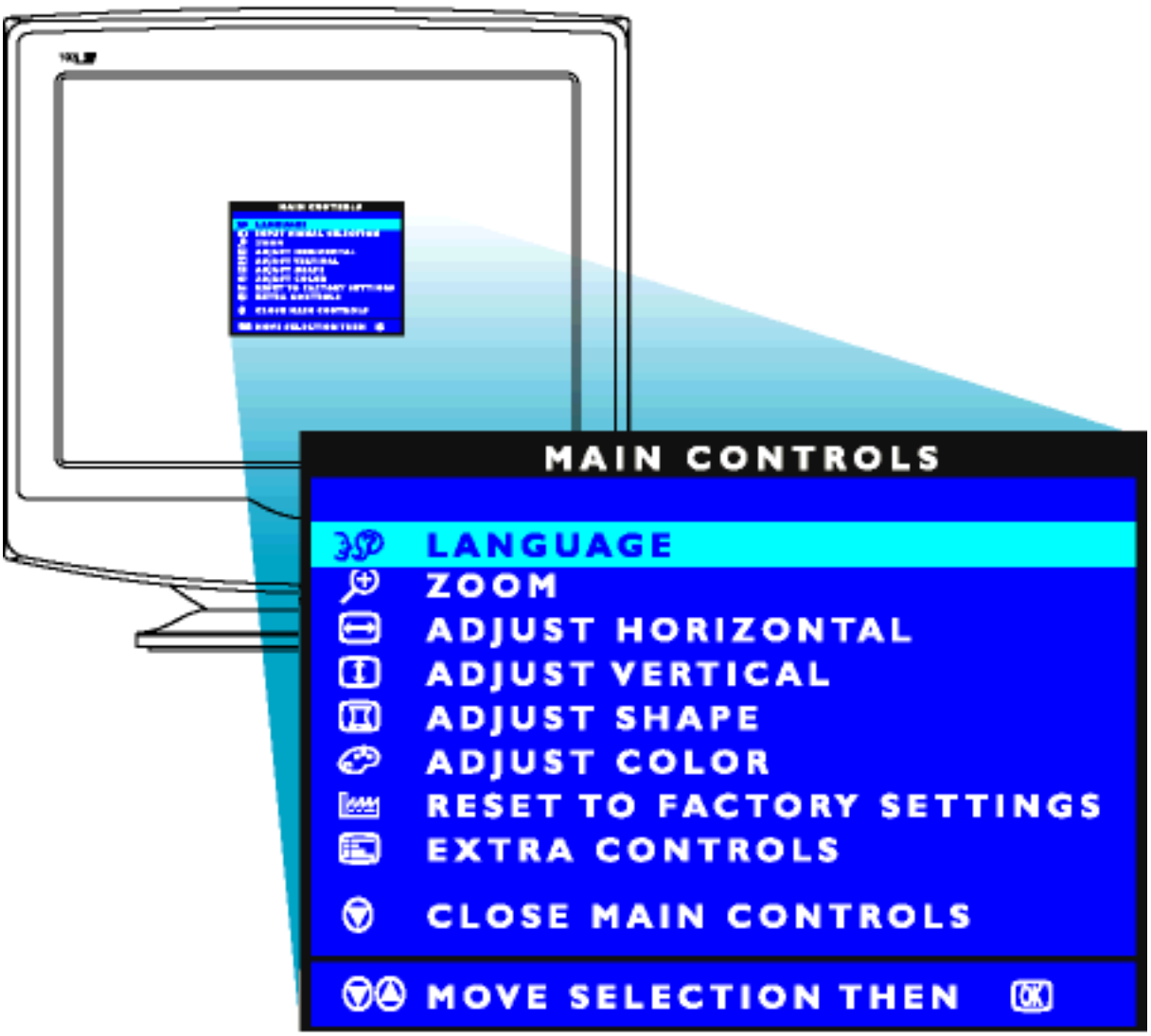
Description of the On Screen Display

What is the On-Screen Display?

This is a feature in all Philips monitors which allows an end-user to adjust screen performance of monitors directly through an on-screen instruction window. The user interface provides user-friendliness and ease-of-use when operating the monitor.

Basic and simple instruction on the control keys.

On the front controls of your monitor, once you press the button, the On Screen Display (OSD) Main Controls window will pop up and you can now start making adjustments to your monitor's various features. Use the to make your adjustments within.



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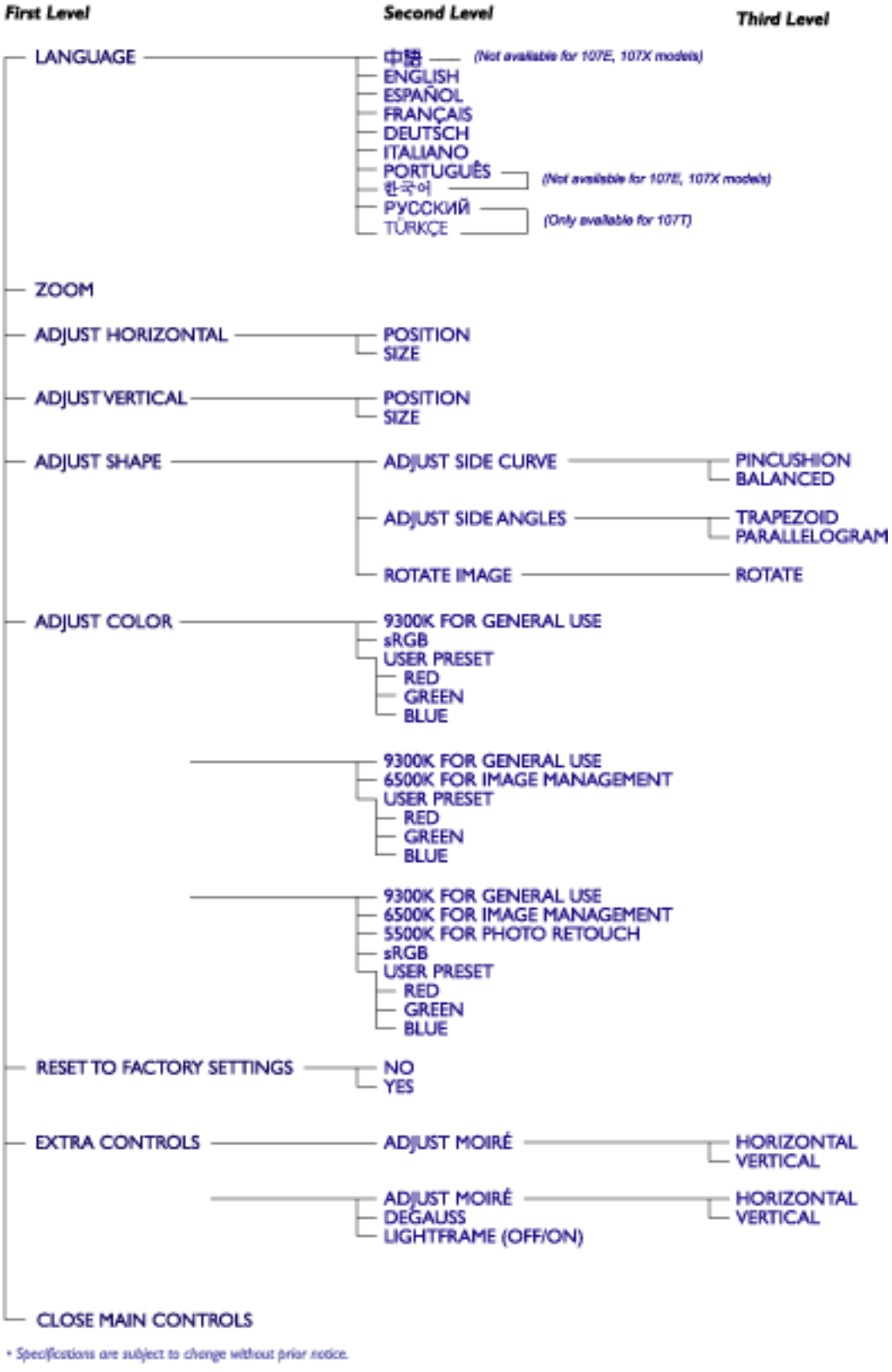
The OSD Tree

Below is an overall view of the structure of the On-Screen Display. You can use this as reference when you want to later on work your way around the different adjustments.

Your monitor may not include all the items in the OSD tree shown below.

CRT OSD tree / English



• Specifications are subject to change without prior notice.

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Customer Care & Warranty

PLEASE SELECT YOUR COUNTRY/AREA TO READ THE WARRANTY COVERED:

WESTERN EUROPE: Austria • Belgium • Cyprus • Denmark • France • Germany • Greece • Finland • Ireland • Italy • Luxembourg • the Netherlands • Norway • Portugal • Sweden • Switzerland • Spain • United Kingdom

EASTERN EUROPE: Czech Republic • Hungary • Poland • Russia • Turkey • Bulgaria

LATIN AMERICA: Antilles • Argentina • Brazil • Chile • Colombia • Mexico • Paraguay • Peru • Uruguay • Venezuela

NORTH AMERICA: USA & Canada

PACIFIC: Australia • New Zealand

ASIA: Bangladesh • China • Hong Kong • India • Indonesia • Japan • Korea • Malaysia • Pakistan • Philippines • Singapore • Taiwan • Thailand

AFRICA: Morocco • South Africa

MIDDLE EAST: Dubai • Egypt

Frequently Asked Questions

1. What does the "Designed for Windows" logo signify?

The "Designed for Windows" logo means your Philips monitor fulfills the requirements and recommendations of the PC9x (97, 98, or 99) System Design Guide and passes stringent WHQL tests.

2. What is USB?

Think of USB as a smart plug for PC peripherals. USB automatically determines resources (like driver software and bus bandwidth) required by peripherals. USB makes necessary resources available without user intervention. Its three main benefits are:

- USB eliminates "Case angst," the fear of removing the computer case to install circuit board cards - that often require adjustment of complicated IRQ settings -- for add-on peripherals.
- USB does away with "port gridlock." Without USB, PCs are normally limited to one printer, two Com port devices (usually a mouse and modem), one Enhanced Parallel Port add-on (scanner or video camera, for example) and a joystick. More and more peripherals for multimedia computers come on the market every day. With USB, up to 127 devices can run simultaneously on a computer.
- USB permits "hot plug-in." No need to shut down, plug in, reboot and run set up to install peripherals. No need to go through the reverse process to unplug a device. Bottom line: USB transforms today's "Plug-and-Pray" into true Plug-and-Play!

3. What is a USB hub?

Think of USB hub as a extension of USB ports. Normally, the PC provides only one or two USB ports. To connect additional USB devices, you need a USB hub.

4. What is Philips Monitors USB hub solution?

Increasingly, monitors include USB hub functionality. But not all users need or want a USB hub. To give users freedom of choice, Philips provides an optional USB hub (type number PCUH411). The USB hub consists of two parts that are normally connected: one is functional, the other aesthetic. The aesthetic element is a removable cover. With the cover removed, the USB hub can be attached to the base or pedestal of monitor. The attached USB hub can be rotated to any position around the monitor's base. With this innovative Philips solution, your USB hub is always within reach for convenient connection and disconnection of USB peripherals.

6. What models are Mac compatible?

All listed Philips monitors are Mac compatible. BUT, you may need an adapter to connect the monitor to your Mac system. Please contact your dealer/reseller for details.

7. What is TCO?

TCO is a Swedish abbreviation for the Swedish Confederation of Professional Employees.

8. What is MPR?

MPR is a Swedish abbreviation for the Swedish National Board of Measurement and Testing.

9. What are the differences between MPRII, TCO92, TCO95, TCO99 and TCO'03?

In the general hierarchy of standards, TCO'03/TCO99 is the highest level of certification. Next is TCO95, which is "better" than TCO92, which, in turn, is better than MPRII. Below, we compare the standards in each category.

-TCO 92 Phase out: June 30, 2000
-TCO 95 Will be end December 31, 2003

Emissions:
MPRII: Set low emission rules for visual displays.
TCO92: Imposed more stringent standards than MPRII.
TCO95: Further toughened TCO92 rules.
TCO99: Delineated even more severe standards and test procedures than TCO95.
TCO'03: Same as TCO99 standard + Testing uncertainty.

Safety:
MPRII: No requirement.
TCO92/95/99/03: All set requirements.

Energy Saving:
MPRII: No requirement.
TCO92: Standby mode < 30W, Off mode < 8W
TCO95: Standby mode < 30W, Off mode < 8W
TCO99: Standby mode < 15W, Off mode < 5W
TCO'03:Standby mode < 15W, Off mode < 5W

Visual Ergonomics:
MPRII: No requirement.
TCO92: No requirement.
TCO95: Set ergonomic rules including minimum contrast level, flicker and jitter.
TCO99: Tightened TCO95 rules.
TCO'03: Tighten TCO99 rule for CRT and new requirement of screen color for TFT LCD Monitors.

Ecology:
MPRII: No requirement.
TCO92: No requirement.
TCO95: Set general ecological standards including recycling preparation, environmental policy and environmental certification.
TCO99: Further tightened TCO95 norms.
TCO'03:Require the recycling information to users.

10. How do I enable the energy saving function?

Go to 'My Computer' and select 'Control Panel' followed by 'Monitor Control.' Select "All default selection' and choose your Philips monitor model from the default driver list. Plug and Play will automatically enable the EPA tick box for you. In DOS or Windows 3.1, you must first make sure your PC supports power saving.

11. What is refresh rate?

"Refresh rate" describes the number of times an entire screen is vertically scanned each second. In other words: If a monitor's refresh rate is 85 Hz, its screen is refreshed - or vertically scanned - 85 times per second. A higher the refresh rate means better image stability and less flicker. A high refresh rate helps users who work long hours in front of a monitor avoid eye fatigue and stress. To change the refresh rate, go into "Start/Settings / Control Pannel / Display / Properties / Setting/Advance/Adaptor" Windows settings of the computer, the monitor will automatically adjust itself to the video card.

12. Why does the picture on the screen appear to flicker?

A low refresh rate or electrical interference typically causes flickering in the picture. Possible solutions include the following:

- Verify that the proper drivers are installed for your video card
- Make sure that all electrical devices (such as mobile phones) are at least 1m from the monitor
- Place the monitor in another physical location away from electrical interference
- Adjust the refresh rate to 75hz or higher.

13. How do I adjust my monitor's resolution?

Available resolutions are determined by the capabilities of your video card and graphic driver. Under Windows '95, you may select the desired available resolution through the 'Display properties/Settings' menu.

14. How can I adjust the size, position and rotation of my screen?

Depending on the model you own, you can use your CustoMax Software, On Screen Display (OSD) or control knobs located on the monitor.

15. What if I get lost when making monitor adjustments?

Simply press OK button then select "Reset to factory settings" to restore all settings.

16. What is LightFrame ?

LightFrame is a Philips technology breakthrough which offers a unique and revolutionary solution for boosting a monitor 's brightness and sharpness. With LightFrame™, the user experiences TV quality performance for video or photos without deterioration to the monitor 's performance in windows used for other applications.

17. How does LightFrame work?

LightFrame consists of a software application and an Integrated Circuit (IC) embedded in the monitor. Together, they boost brightness and sharpness in a user defined window or screen area. Unique LightFrame™ technology dramatically improves photo and video display quality.

18. Why is LightFrame important to me?

With LightFrame , selected Philips monitors deliver TV quality video and photo display while maintaining monitor performance for text-based applications. The result is that movies and other video are brighter and livelier; photos are more vibrant and lifelike.

19. Will anyone else have this?

LightFrame was invented, developed and patented by Philips. It is a unique feature that you will find exclusively in Philips monitors.

20. Will LightFrame shorten the life of a monitor?

No. Extensive testing has confirmed LightFrame does not adversely affect monitor life. Today's state-of-the-art Philips monitors employ improved phosphors and are designed for high light output. LightFrame normally highlights photos and videos. Though the peak brightness of the highlighted area is strongly increased, the average brightness - a determining factor for cathode deterioration - is not normally increased. In any case, a special Automatic Beam Limiter (ABL) circuit keeps a monitor 's maximum average brightness within acceptable levels.

21. I get a message warning that my monitor 'may not support LightFrame '. I am certain my monitor does. What is wrong?

Only a Philips driver can determine if your monitor is equipped with LightFrame ; a generic Windows driver cannot. Install the special Philips driver that came with your monitor. If the warning continues to flash after your Philips driver is installed, ignore the message. LightFrame™ will function properly.

22. What will happen when my system is no longer connected to a LightFrame™ enabled monitor - for example, when I take my notebook on the road?

Philips exclusive LightFrame feature requires the combined operation of hardware that resides in your monitor and software installed on your system. It only works when a monitor with built-in hardware receives commands from system software. Without both the LightFrame™ hardware equipped monitor and system software, the LightFrame does not function.

23. What is "XtraSpace Design" (XSD)?

XSD stands for XtraSpace Design, a Philips breakthrough that reduces a CRT display device's footprint. Philips XSD monitors combine the world's smallest front-to-back footprint with excellent front of screen performance.

24. How did Philips achieve XtraSpace Design?

Philips achieved this breakthrough in reduced footprint CRT display devices through short depth tubes and a focused design process that squeezed every excess millimeter out of XSD monitor desk space requirements.

25. What is Philips monitors' solution for audio?

Not all users need multimedia capabilities. To give users freedom of choice, Philips provides an optional Multimedia Base (type number: 6G3B10). The Multimedia Base replaces the easily removable standard pedestal of the monitor.

26. Which models can be incorporated with the Multimedia Base?

The following models can be incorporated with the Multimedia Base: 109B5, 109E5,109F5, 107B5, 107E5,107F5, 107S5, 107T5.

27. What are Philips Multimedia Base's specifications?

See detailed Multimedia Base specifications on the product information page.

28. Why is a Multimedia Base better than separate speakers?

The major advantage of the Multimedia Base is its minimal space requirements. In fact, it hardly uses any extra space at all: monitor depth and width are unchanged. Only the monitor's height is increased by only 3 centimeters.

29. Where can I buy a multimedia base to incorporate with my Philips monitor?

Please contact your dealer/reseller for details.

30. What does Auto Calibrate do?

It makes your monitor perform better and last longer. As a monitor becomes older, brightness gradually deteriorates and its colors change. This well-known process effects all monitors. Eventually after a number

of years, the monitor's brightness deteriorates to below 50% of its original value. At this stage, the usable life of a monitor is considered ended. Auto Calibrate regularly readjusts color temperature and luminance to their original values.

31. How does Philips Auto Calibrate feature benefit me?

With Auto Calibrate, it takes a monitor's luminance 33 percent longer to deteriorate to the 50 percent level that marks the end of a display device's useful life. Thanks to Auto Calibrate, a monitor with a normal life of 10,000 hours, for example, would last for 13,300 hours, a full one third longer.

32. How does Auto Calibrate work?

During the calibration process, different predefined black and white images are displayed on thescreen. The beam currents of the red, green and blue cannon are accurately measured and compared to the original values stored in the monitor. By readjusting gain values of the individual cannons, deviation is reduced to zero. Default values are stored during production. If the user sets a new color temperature, this new value is saved as the new default value.

33. When should calibration be performed?

The calibration process takes less than six seconds. During this period, different specific images are displayed. After the process is finalized, the original image is redisplayed. Constant re-calibration is not required. Calibration should be performed after the monitor is warmed up. Auto Calibration takes place when a monitor receives a signal indicating an imminent switch to its sleep mode/stand-by mode.

34. Which models of Philips monitors are equipped with Auto Calibrate feature?

Auto Calibrate is currently available in the new 201P, 201B and 109P.

35. The Main Menu displays OSD MAIN MENU LOCKED . Pressing the front control panels hasno effect. How can I unlock this function?

Press and hold the OSD menu key for about 10 seconds until picture displays "OSD MAIN MENU UNLOCKED"

36. My screen shows NO SYNC INPUT , how can I get rid of this?

Check the following for possible solutions:

- Bent pins on the video cable
- Make sure the computer is turned on
- Ensure the VGA Cable is properly connected
- Ensure the BNC/D-Sub connector on the rear of the monitor is in the correct position, newer models have this option in the On Screen Display under Input Signal Selection.
- Video card may be not a VESA standard (try the monitor with another computer)

37. Why does my monitor display "Out of Range"?

The video card installed in your computer may be too high for the monitor 's specifications. Please contact your computer manufacturer for details on how to lower resolution for your operating system.

38. What is Moire? Why does my monitor have this wavy phenomenon?

Moire is a natural effect or phenomenon of CRT that has the appearance of a wavy pattern, which is repetitive and superimposed on the screen as ripple images. These are a few suggestions to help reduce or minimize the effects:

- Some monitors have a Moire cancellation feature, activate it to the on position or adjust the Moire cancellation function via the OSD on the monitor.
- Change resolution to the recommended standard for the specific monitor size.
- Change Window viewing pattern/scheme to a pattern where the Moire is less visible.
- Change horizontal and vertical size to optimize the reduction of the Moire effect.

39. What is CustoMax?

CustoMax is proprietary Philips software that allows user to control parameter (e.g. Size, Color, Geometry) in place of the buttons on the front of the monitor. To install and run the CustoMax software, you must have a USB compatible system and have a USB connection at the rear of your monitor.

40. My monitor appears to be missing one or more colors. How do I correct this?

- If the OSD menu is also missing a color, please contact service for details
- Set color temperature to 9300 color coordination
- Check the video cable for any bent pins
- Video card could be defective (try the monitor with another computer).

41. When I degauss my monitor, it makes a loud noise. Is this normal?

Yes, when degaussing your monitor via the OSD, it is normal for the monitor to make a relatively loud noise. Please be aware that many models will not degauss more than once within any given time period (up to 10 minutes). This is due to the unit having a temperature sensitive resistor. While the unit is degaussing, the resistor increases in value with heat and once it reaches a certain temperature, the resistance will rise and prevent voltage from reaching the degaussing coil. This is what stops the degausser, and this device's resistance will decrease as it cools back off, enabling the degauss function to operate again. This is an intentional design and is an industry standard, not just for Philips monitors. Please be aware that not all models in the Philips range has this manual degauss function. Some models are built with an auto degauss feature which automatically degausses the monitor when it is switched on.

42. How do I adjust the picture on the screen?

Please perform the following to correct the picture image:

- Reset your monitor via the OSD menu
- Adjust the Horz (width) and/or Vert size (height) in the OSD
- Change monitor timing to work at the recommended resolution

43. The edge of the picture on the screen appears to be distorted. How can I correct this?

Please perform the following to correct the picture image:

- A magnetic or electrical interference typically causes poor geometry in the picture. Place the monitor in a different physical location
- Reset the monitor to the factory preset via the OSD menu
- Access the Geometry Menu in the OSD of the Monitor and perform the necessary adjustments
- Change the monitor timing to the recommended resolution

44. The picture appears too dim. How can I correct this?

Adjust Brightness and/or Contrast via the monitor 's OSD. Some models have a Video Input Select

under Advanced Controls in the monitor 's OSD. Most computers require it to be set at 0.7V.

Please review the following for possible solutions:

- If the OSD menu is also dim, please contact service for repair
- Reset the monitor via the OSD menu
- Change the color temperature settings to 9300 color coordination via the OSD menu
- Set the Contrast to maximum level (100) and Brightness to middle level (50)

Video card could be defective (try the monitor with another computer)

45. I have noticed two thin horizontal lines on the screen of my Philips monitor. Is this normal?

This phenomenon can occur with Philips 107P, 109P and 201P monitors and is normal. Your monitor is using an Aperture Grille, which consists of fine vertical wires to align the electron beams with the phosphors on the screen. To prevent these vertical wires from vibrating and to keep them properly aligned with the picture tube, two horizontal damper wires are required. These are located on one-third and on two-third from the top of the screen. The result is that you will see two very thin horizontal lines over your screen since the two wires are casting a slight shadow on the screen surface. You will find these wires (line) in any monitor from Philips and other brands using the Aperture Grille technology.

46. How can I increase the color display of my monitor?

The amount of video memory your video card holds determines the amount of colors that can be displayed on your computer screen. To get the most out of your video card, you will need to either install the latest drivers onto your computer or upgrade the video cards memory. Please check with your computer or video card manufacturer for further details.

47. Why is there no picture on my monitor?

- Check the wall socket for power. Verify that there is power by connecting another product.
- Ensure the power cable is correctly attached to both the wall socket and the monitor.
- Check that the power button is switched on.
- Unplug the monitor for approx. 1 minute and plug it in again. Switch the monitor back on.

48. Why is there no picture on my monitor even though the power LED is yellow/amber or flashing green?

- Reboot your computer while holding the Ctrl key on your computer. If you see any picture during the boot procedure, please verify the settings of your video card (for Windows go to Control Panel and select Display).
- Check that the video cable is not damaged, bent or that any of the pins in the connector are damaged (please be aware that some VGA connectors have one missing pin). If damaged, replace with a new cable.
- Check that the cable is attached correctly to the computer.
- Press any key on the keyboard to wake-up the computer from power saving mode.

49. Why is there no picture on my monitor even though the power LED is green?

- Verify the Contrast and Brightness setting of the monitor. First press and hold the 5 (-) button to increase Contrast and then press and hold the 4 (+) button to increase Brightness. These buttons are located on the front of your monitor.
- Press both the 5 (-) button and the OK button at the same time to switch input A|B.
- Try and repeat step 48 above.

50. Why does the picture disappear after I press the on/off button quickly?

This is a unique Philips feature designed to preserve the life of your monitor. Please allow 5 seconds between powering off and on your monitor, your picture will then be restored.

Glossary

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

A

Autoscan

A microprocessor-based feature of Philips Brilliance monitors is able to detect automatically horizontal and vertical frequencies of input signals with those of the installed video card. An autoscan monitor can thus operate with a wide range of video cards. MultiSync, a registered trademark of NEC, provides a similar function.

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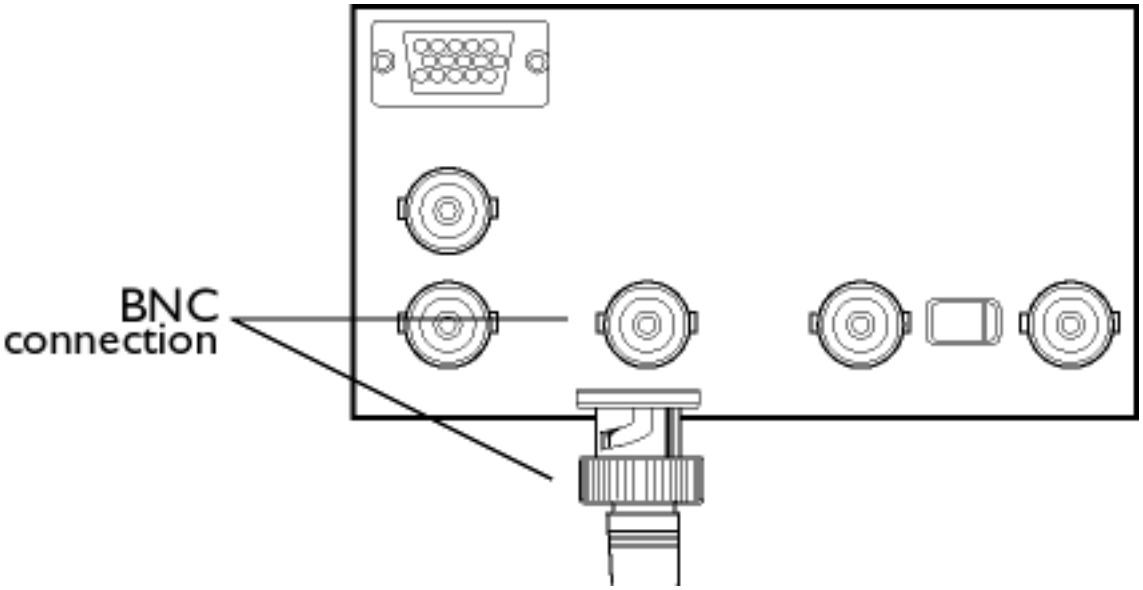
B

Balanced pincushion

See Geometric distortion

BNC connection

A special construction of connector used in some monitors with higher horizontal scanning frequency. The BNC connection can provide the optimum shielding and matching characteristic impedance of video signal path to ensure the best video performance.



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C

CE Mark

CE mark is displayed on products per EMC and LV (low Voltage Device) directives in compliance with European Community safety, EMI and EMS requirements and is compulsory on products for sale in the European Community.

Color temperature

A way of describing the color of a radiating source in terms of the temperature (in degrees Kelvin) of a black body radiating with the same dominant frequency as the source.

Most Philips monitors offer the possibility of setting the color temperature to any desired value.

Contrast

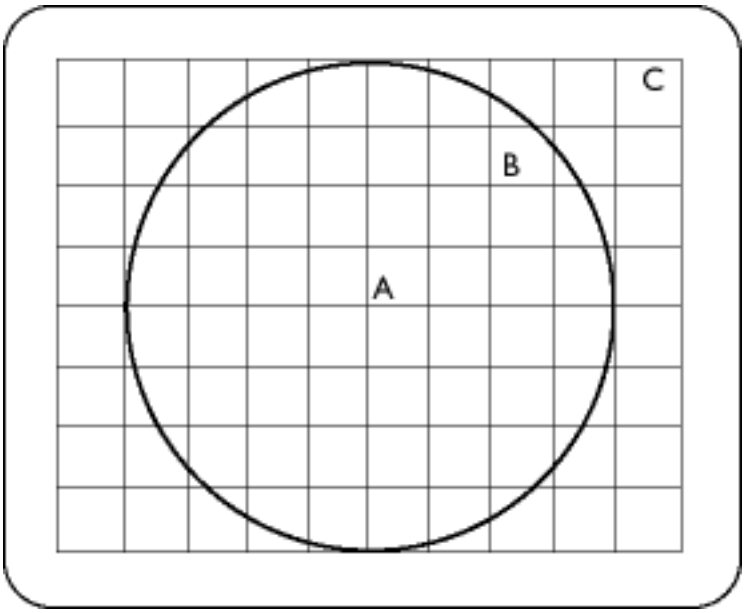
The ratio between the brightness of the brightest and darkest parts of a picture. The darkest part of

a picture is set by the brightness of the unexcited phosphor, which is governed by the degree with which ambient light is reflected. Contrast is therefore reduced in conditions of high ambient light levels. Black Matrix tubes reflect less ambient light so exhibit higher contrast than other tubes.

Convergence error

Bean misalignment causing one or more of the three beams passing through the wrong aperture in the shadow mask and striking a phosphor dot in the wrong triad.

Convergence error is expressed in mm often at three well-defined points on the screen, designated A, B and C (see figure). Also known as misconvergence.



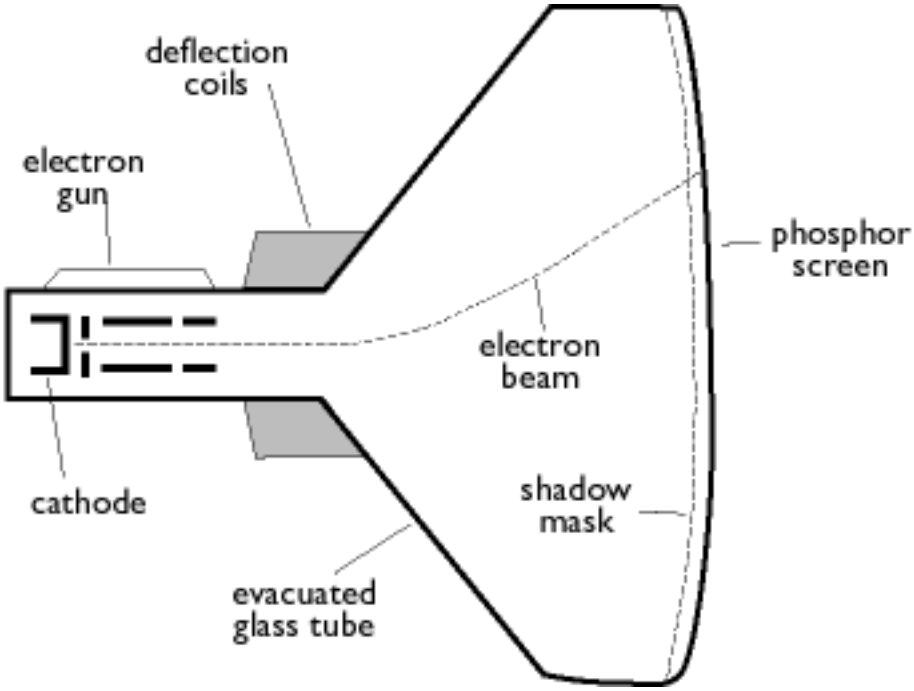
Points where convergence error is specified.

Convergence-error correction

A method of correcting for convergence error to insure that all three beams land simultaneously in the same triad. This is usually accomplished by means of special convergence-error correction coils in the deflection yoke.

CRT

Cathode-ray tube - the general term for all tubes in which one or more electron beams emitted by a cathode are periodically scanned across a phosphor screen by means of deflection circuitry. A special form of the cathode-ray tube is the TV and monitor picture tube.



CustoMax

Philips proprietary monitor control software that allows users to control parameters (e.g., Size, Color, Geometry) using software running in Windows. CustoMax is compatible with existing VGA cards. See CrystalClear FAQ and USB Bay FAQ.

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D

DDC (Display Data Channel)

DDC is a communication channel for displays and computers. The DDC feature allows the monitor controller to be automatically configured to make optimal use of the display without manual user interaction. DDC is implemented as part of the new Plug & Play approach introduced into the PC market to increase user friendliness.

The three levels developed for Plug & play are: (1) DDC1, monitor send data to the PC; (2) DDC2B, PC can request information from monitor; and (3) DDC2Bi which is a two-way communication - monitor can be addressed and PC or graphics board can give commands to monitor.

DDC 1/2B

See DDC.

DDC 2Bi

See DDC.

Degaussing

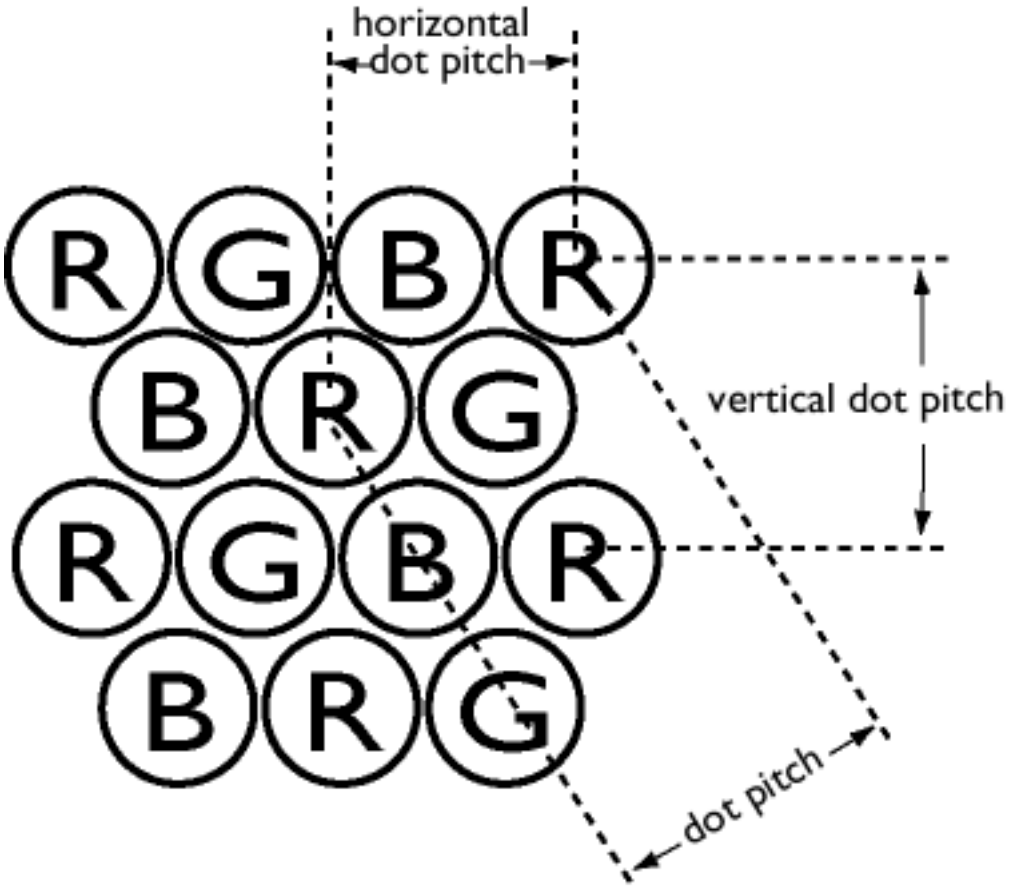
The procedure of demagnetizing the shadow mask and associated metal parts of a picture tube at switch-on to minimize picture distortion. This is usually accomplished by means of a special degaussing coil through which a decaying alternating current is passed to generate an alternating magnetic field that gradually decays to demagnetize the tube. Some monitors offer a manual degaussing facility that can be activated at any time.

Digital control

Microprocessor-based digital control of picture parameters and video modes for complete control of picture settings and modes and instant recall of all settings at the push of a button. This is a very advanced feature that allows the user to switch to any required mode at any instant without having to spend time readjusting the picture. It is currently available in most Philips monitors.

Dot pitch

The shortest distance between two phosphor dots of the same color on the screen. The smaller the dot pitch, the better the resolution of the monitor.



Dot rate

Frequency in MHz of the dot clock. It is a measure of the speed with which data is transferred between the video card and subsequent processing circuitry.

Also known as video dot rate.

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E

Electromagnetic radiation standards

International standards set to limit electromagnetic emissions from monitors. There are currently

two important standards both derived from regulations originally laid down by Swedish authorities.

MPR-II

The standard originally proposed by the Swedish National Board of Measurement and Testing. It set maximum levels of electromagnetic radiation emitted by monitors, and has now been adopted as a world standard. MPR-II defines maximum permitted electrostatic, magnetic and electric field levels measured at a distance of 50 cm from the center of the monitor (see table).

TCO

In 1991, the Swedish Tjänstemannens Central Organization (TCO, Swedish confederation of Professional Employees) set a standard even more severe than MPR-II, especially for alternating electric fields (AEF). The TCO standard is more severe since not only are the permitted field levels reduced compared with MPR-II, but the measuring distance is also reduced (see table).

Electromagnetic radiation standards

EMI (Electrical Magnetic Interference)

The electrical and/or magnetic radiation coming from the working electrical or electronic equipment.

EMS (Electrical Magnetic Sustainment)

The ability of electrical or electronic equipment to function properly in the environment with electrical and/or magnetic interference.

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F

Flicker

Very rapid variations in picture intensity caused by the finite time required for the electron beam to scan a picture onto the screen. Two kinds of flicker occur: line flicker caused by the electron beam scanning-in each line of the picture; and frame flicker (or field flicker if the picture is interlaced) caused by the frame repetition rate of 50 frames/second. Frame flicker is noticeable with GUI and DTP software (which have a light background), and can be very disturbing, especially for those who work regularly with displays - contributing to eye strain, headaches, visual blurring, stress, etc. The

problem can, however, be eliminated by increasing the refresh rate (number of frames/second) of the monitor to a value above around 70 Hz. Sensitivity to flicker appears to diminish with increasing age.

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H

Hertz

The unit of frequency named after the physicist Heinrich Hertz (1857-1894). 1 hertz (Hz) is equal to 1 cycle/second.

Horizontal dot pitch

See Dot pitch.

Horizontal scanning frequency

Also called line frequency and expressed in kHz, it is the number of video lines written on the screen every second (from left to right). The higher the horizontal scanning frequency, the better the resolution (i.e., the higher the resolution and/or the higher the refresh rate).

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I

INF File

INF file (Information File)

Information (INF) files store information in a specific format. The set-up functions retrieve information from the INF file to use when performing installation operations. Examples of the type of information stored in an INF file include INI and registry changes, file names, and locations of the source files on source media.

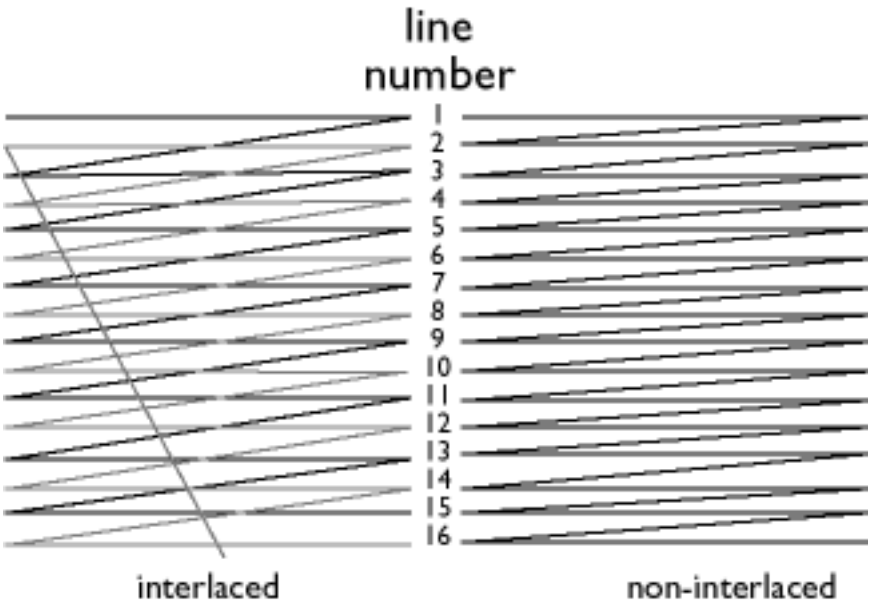
Interlaced/non-interlaced

Interlaced.

The method of writing a picture on the screen by initially writing all even lines and subsequently writing all odd lines of the picture. Result: The complete picture is composed of two interlaced half pictures (or fields). With interlacing, a vertical (or field) frequency of 50 Hz means a picture (or frame) frequency of 25 Hz.

Non-interlaced.

The method of writing a picture on the screen by successive video lines of the picture so that a full frame is written onto the screen in one vertical sweep of the beams. With a non-interlaced display, a vertical frequency of 50 Hz means a picture (or frame) frequency of 50 Hz. At any given resolution, non-interlaced modes are preferable to interlaced modes; however, generation of non-interlaced modes is more expensive.



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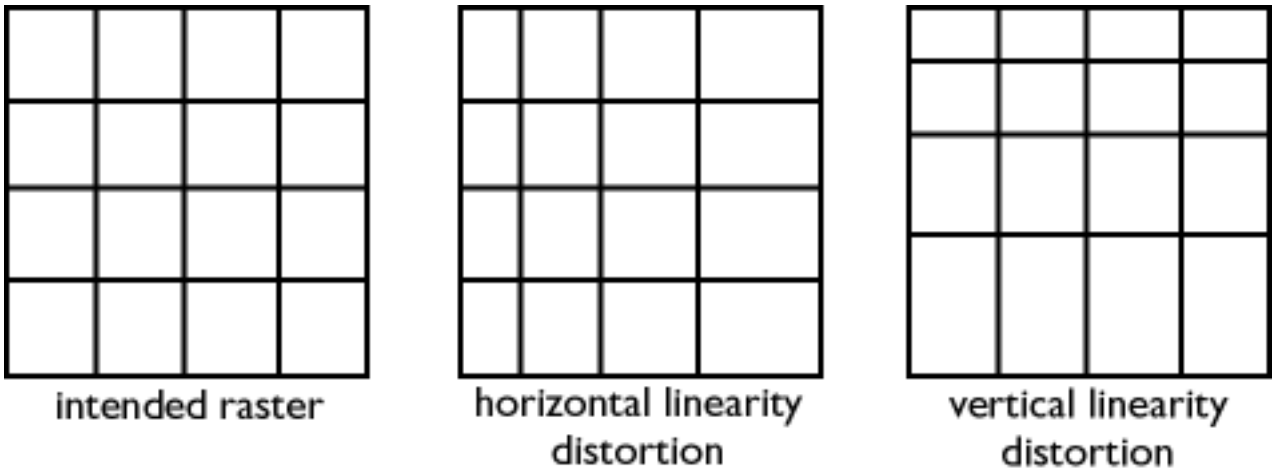
L

Linearity

The degree to measure the actual location of a pixel on the screen corresponds with its intended location. (see figure)



Line frequency

See Horizontal scanning frequency.

Low-emission monitor

A monitor that complies with international standards on radiation.

See Electromagnetic radiation standards.

Low-frequency electric and magnetic fields

Alternating fields generated by the deflection yoke. These are subject to increasing attention, notably by governing authorities, the trade and the press. Although there is no scientific evidence that monitor emissions are harmful, much effort has gone into reducing emissions on the principle of better safe than sorry. Currently, there are two areas of interest: very-low frequency (VLF) electric and magnetic fields extending from 2 kHz to 400 kHz, and extreme low frequency (ELF) fields extending from 5 Hz to 2 kHz.

See also *Electromagnetic radiation standards*.

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M

Moiré effect

A fringe pattern arising from the interference between two superimposed line patterns.

In a monitor it comes from the interference between the shadow mask pattern and the video information (video moiré), and between the shadow mask pattern and the horizontal line pattern (scan moiré). It shows itself as wavy patterns on the screen and becomes more noticeable as monitor resolution increases. Since the video signal varies continuously, little can be done about video moiré. Scan moiré depends on the horizontal scanning frequency and can be alleviated by appropriate choice of frequency. Autoscan (MultiSync) monitors, which operate over a range of scanning frequencies, may sometimes exhibit moiré in certain video modes.

MPR

See Electromagnetic radiation standards.

MultiSync monitor

See Autoscan monitor.

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N

Non-interlaced

See Interlaced/non-interlaced.

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O

OSD (On Screen Display)

The feature that allows an end user to adjust screen performance and parameters of monitors directly through an on-screen instruction window. See CustoMax in CrystalClear section.

Overscan

The practice in which areas without useful video information are scanned outside the visible screen area in order to make maximum use of the screen for display of active video information. This practice is occasionally necessary because some video cards generate a video pattern that is smaller than the visible screen area, resulting in an image that is smaller (and less legible) than it needs to be.

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P

Parallelogram Distortion

See Geometric distortion.

Phosphor

Generic name for the class of substances that exhibit luminescence. To produce a picture on screen, phosphors are deposited on the inner surface of the picture-tube screen and excited into luminescence by the electron beam. Typical examples of phosphors are P22 medium short-persistence phosphor and EBU high-color-saturation phosphor.

Pin-cushion Distortion

See Geometric distortion.

Pixel

Abbreviation for picture element, the smallest element of the picture that can be displayed on the screen. The smaller the pixel size, the better the resolution of the monitor. Pixel size is determined by the size of the electron spot on the screen and not necessarily by the phosphor dot pitch (the size of the triad). Thus, a monitor with a large electron spot covering several triads can exhibit poor resolution even though its dot pitch is small.

Pixel frequency

The number of pixels that can be written in a video line per second.

Pixel rate

See pixel frequency

Plug-and-Play

See DDC. See USB section.

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R

Raster

The area on screen that electron beam can reach.

Refresh rate

See Vertical scanning frequency.

Resolution

The number of pixels that can be displayed on the screen. The resolution is specified as the number of pixels in a line multiplied by the number of horizontal lines.

See also video graphic adapter.

Rotation function

The feature that allows users to adjust the whole screen rotating to be horizontal.

Because of the magnetic field of earth, the screen of monitor will be tilt when the screen faces toward the different direction.

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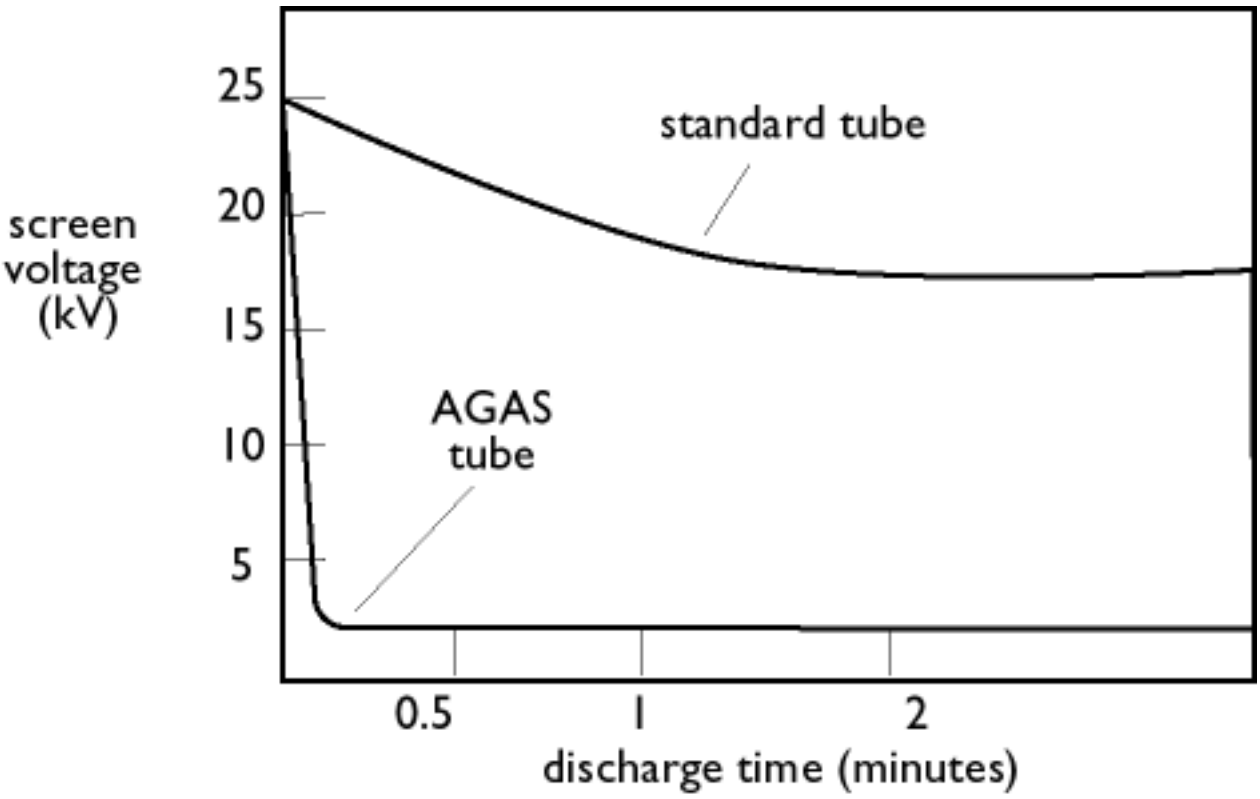
S

Screen coatings



Anti-Static coatings

Due to bombardment by beam electrons, monitor screens become electrically charged when in use. Electrically charged screens surfaces can attract dust particles. An Anti-Static coating is a conductive coating deposited on the screen (or on a glass panel immediately in front of the screen) that conducts away the charge and prevents screen dust build-up.

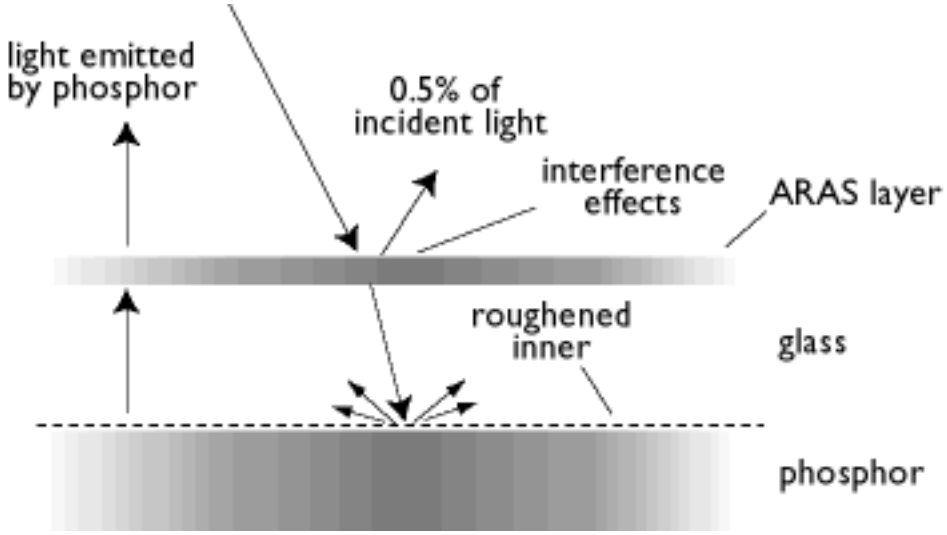
AGAS (Anti-Glare, Anti-Static) coating

AGAS is a silica coating applied to the surface of the screen by a spinning and spraying process. It operates by diffusing reflected light to blur images of light sources on the screen. To provide anti-static properties, the coating is impregnated with small conductive particles.

ARAS (Anti-Reflection, Anti-Static) coating

ARAS is one of the most effective anti-reflection/anti-static screen treatments currently available. It is composed of a multi-layer structure of transparent dielectric material that suppresses specular reflections by broadband interference effects at the screen surface. Anti-static properties are provided by a single conductive layer within the multi-layer structure.

With ARAS, the intensity of reflected light is reduced from around 4.5% of the incident light (the reflectivity of uncoated screens) to less than 0.5%. ARAS also has a major advantage over other screen treatments: It doesn't diffuse or scatter reflected light, so picture contrast and sharpness remain completely unimpaired. It's also easy to clean and tough enough to withstand commercially available cleaning agents.



The ARAS coating reflects only about 0.5% of the incident light.

AGRAS (Anti-Glare anti-Reflection Anti-Static) coating.

A combined anti-reflection, anti-glare, anti-static coating.

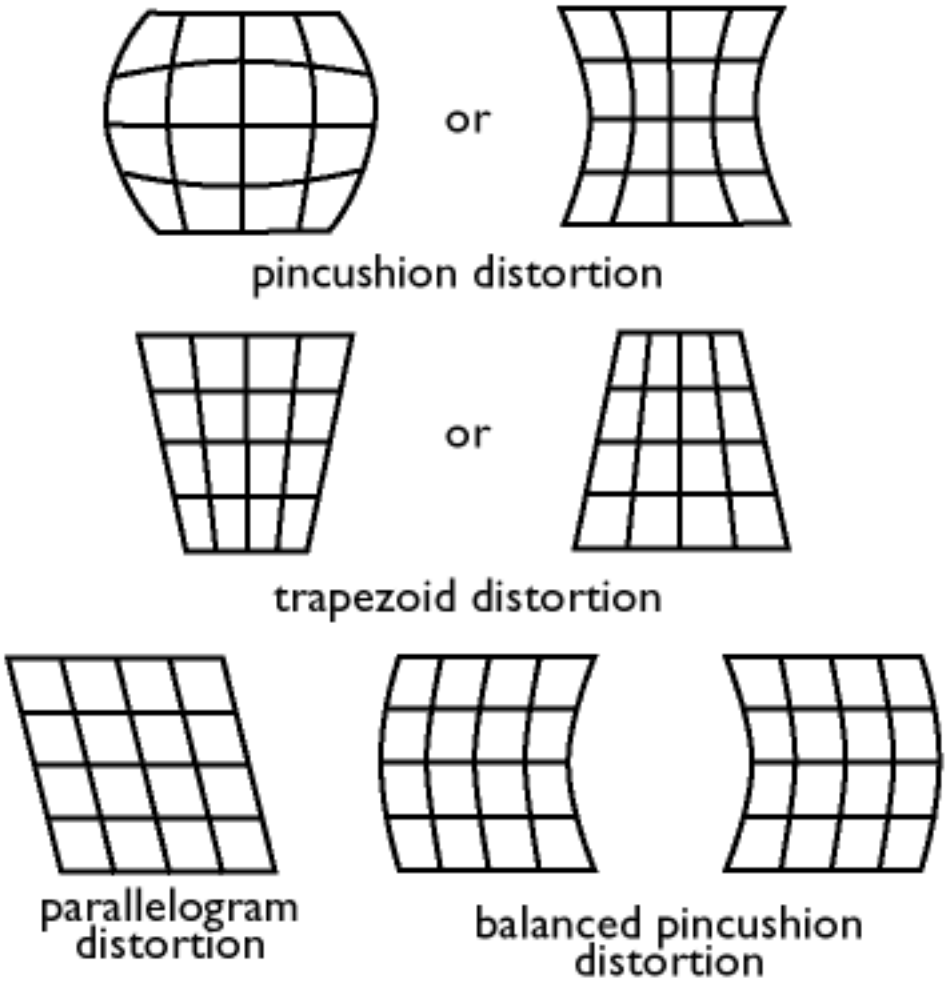
Self-test function

A monitor equipped with hardware or software to automatically detect cable connection status.

Shape

Deviation of a reproduced picture from its intended shape. The following types of distortion are most

common:



SOG (Synchronization On Green)

A properly functioning color monitor requires five kinds of signals: horizontal sync pulse, vertical sync pulse, red color signal, green color signal and blue color signal. Signals from a PC are transmitted to a monitor using one of three methods:

1. Separate sync: Horizontal and Vertical sync signals transmitted separately

2. Composite sync: Horizontal and vertical sync pulses mixed into a single signal train.

3. SOG: Horizontal and vertical sync pulses mixed, then combined with the green color signal.

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T

TCO

See Electromagnetic radiation standards.

Tilt function

See rotation function.

Trapezoid distortion

See Geometrical distortion.

TTL signal

A TTL (Transistor-transistor-logic) signal is a digital signal level for controlling the screen colors. With TTL driving, the red, green and blue signals can only be switched on or off or provided with an intensity signal. A TTL-driven monitor can thus display a maximum of 64 colors. Video standards such as MDA, CGA and EGA are based on TTL level.

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U

USB or Universal Serial Bus

A smart plug for PC peripherals. USB automatically determines resources (like driver software and bus bandwidth) required by peripherals. USB makes necessary resources available without user intervention.

- USB eliminates "case angst" -- the fear of removing the computer case to install add-on peripherals. And USB also eliminates adjustment of complicated IRQ settings when installing new peripherals.
- USB does away with "port gridlock." Without USB, PCs are normally limited to one printer, two Com port devices (usually a mouse and modem), one Enhanced Parallel Port add-on (scanner or video camera, for example) and a joystick. More and more peripherals for multimedia computers arrive on the market every day. With USB, up to 127 devices can run simultaneously on a computer.
- USB permits "hot plug-in." There's no need to shut down, plug in, reboot and run set-up to install peripherals. And no need to go through the reverse process to unplug a device.

In short, USB transforms today's "Plug-and-Pray" into true Plug-and-Play!

Hub

A Universal Serial Bus device that provides additional connections to the Universal Serial Bus.

Hubs are a key element in the plug-and-play architecture of USB. The Figure shows a typical hub. Hubs serve to simplify USB connectivity from the user's perspective and provide robustness at low cost and complexity.

Hubs are wiring concentrators and enable the multiple attachment characteristics of USB. Attachment points are referred to as ports. Each hub converts a single attachment point into multiple attachment points. The architecture supports concatenation of multiple hubs.

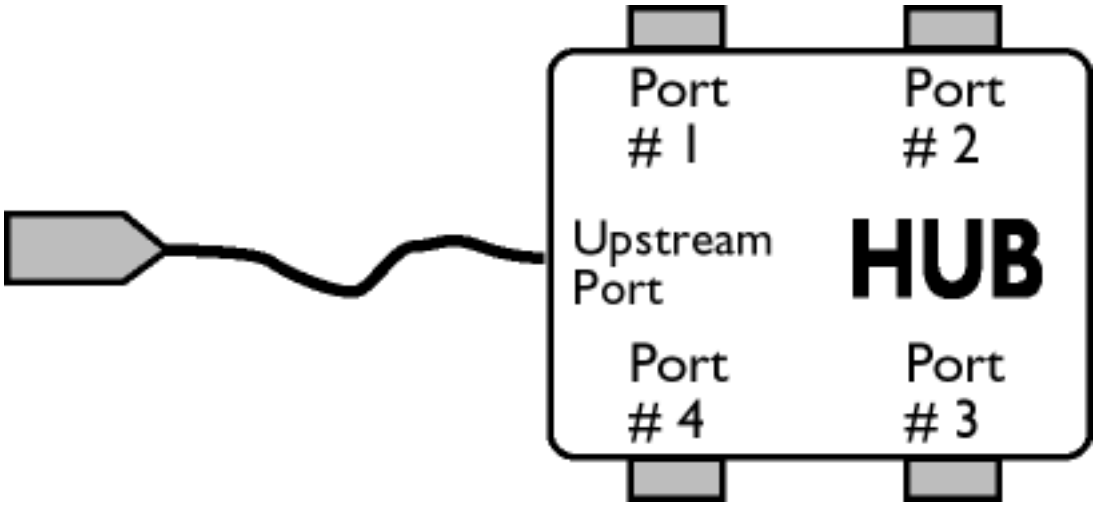
The upstream port of a hub connects the hub towards the host. Each of the other downstream ports of a hub allows connection to another hub or function. Hubs can detect, attach and detach at each downstream port and enable the distribution of power to downstream devices. Each downstream port can be individually enabled and configured at either full or low speed. The hub isolates low speed ports from full speed signaling.

A hub consists of two portions: the Hub Controller and Hub Repeater. The repeater is a protocol-controlled switch between the upstream port and downstream ports. It also has hardware support for reset and suspend/resume signaling. The controller provides the interface registers to allow communication to/from the host. Hub specific status and control commands permit the host to configure a hub and to monitor and control its ports.

Device

A logical or physical entity that performs a function. The actual entity described depends on the context of the reference. At the lowest level, device may refer to a single hardware component, as in a memory device. At a higher level, it may refer to a collection of hardware components that perform a particular function, such as a Universal Serial Bus interface device. At an even higher level, device may refer to the function performed by an entity attached to the Universal Serial Bus;

for example, a data/FAX modem device. Devices may be physical, electrical, addressable, and logical.



Downstream

The direction of data flow from the host or away from the host. A downstream port is the port on a hub electrically farthest from the host that generates downstream data traffic from the hub. Downstream ports receive upstream data traffic.

Upstream

The direction of data flow towards the host. An upstream port is the port on a device electrically closest to the host that generates upstream data traffic from the hub. Upstream ports receive downstream data traffic.

UPS (Universal Power Supply)

The monitor with UPS feature can work in different countries with various mains voltage.

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V

Vertical dot pitch

See Dot pitch.

Vertical scanning frequency

Expressed in Hz, this is the number of fields written to the screen every second in interlaced mode. In non-interlaced mode vertical scanning frequency is the number of frames (complete pictures) written to the screen every second (also known as refresh rate).

Vertical sync pulses

A train of square shaped waveforms that define the start of a new frame.

VESA

Video Electronic Standards Association, a consortium of manufacturers formed to establish and maintain industry-wide standards for video cards and monitors. VESA was instrumental in the introduction of the Super VGA and Extended VGA video graphics standards (see Video graphics adapters) with a refresh rate of 70 Hz, minimizing flicker and helping to reduce operator eyes fatigue and stress.

Video dot rate

See Dot rate.

Video graphics adapters

A card equipped with a character or graphic generator and video memory, which maps to the screen. A microprocessor scans video memory and translates bit information from the computer into displayable video signals for the monitor. These cards comply with various standards that determine the nature and quality of the display.

VGA (Video Graphics Array), introduced in 1987, was the first analog card. It offered still higher resolution than EGA: 640 X 480 pixels for graphics and 720 x 400 pixels for text, and a color palette of 256 colors. VGA could also emulate EGA and CGA.

Super VGA, devised by VESA in 1989, offers a resolution of 800 x 600 pixels.

Extended VGA, introduced by VESA in 1991, offers a top resolution of 1024 x 768 pixels (non-interlaced) and a refresh rate slightly higher than IBM's XGA 8514A.

High-end, graphics adapters, introduced over the last three years for professional workstations, offer top resolutions from 1280 x 1024 to 1600 x 1280, horizontal line frequencies up to 90 kHz and bandwidths up to 200 MHz.

VIS (Viewable Image Size)

The real screen dimensions that users can see measured diagonally. The VIS of a monitor is always less than the so called screen size of a monitor. For example, the VIS of a 17-inch monitor is only about 16 inches. It depends on the useful screen size of CRT and the opening of a monitor's front cabinet.

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Download and Print

This page provides an option to read the manual in .pdf format. PDF files can be downloaded into your hard disk, then viewed and printed with Acrobat Reader or through your browser.

If you do not have Adobe® Acrobat Reader installed, click on the link to install the application. Adobe® Acrobat Reader for PC / Adobe® Acrobat Reader for Mac.

Download instructions:

To download the file:

1. Click-and-hold your mouse over the icon below. (Win95/98/2000/Me/XP users right-click)

2. From the menu that appears, choose 'Save Link As...', 'Save Target As...' or 'Download Link to Disk'.

3. Choose where you would like to save the image; click 'Save' (if prompted to save as either 'text' or 'source', choose 'source').

Printing instructions:

To print the manual:

1. With the manual file open, follow your printer's instructions and print the pages you need.

107B.pdf English language manual

107C.pdf

107E.pdf

107G.pdf

107F.pdf

107P.pdf

107S.pdf

107T.pdf

107X.pdf

Troubleshooting

Safety Precautions and Maintenance • Troubleshooting • Regulatory Information • Other Related Information

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Common Problems

Having trouble? Something not working? Before calling for help, try these suggestions.

Having this problem?	Check these items
No Picture (Power LED not lit)	• Make sure the Power cable is plugged into the power outlet and back of the monitor. • Power button on the front of your monitor should be in the ON position. • Disconnect the monitor from the power outlet for about one minute.
No Picture (Power LED is flahsing green)	• Make sure the computer is turned on. • Make sure the monitor cable is properly connected to your computer. • Check to see if the monitor cable has bent pins. • The Energy Saving feature may be activated
No Picture (Power LED is green)	• Make sure the Brightness and Contrast controls are set correctly. • Make sure the monitor cable is properly connected to your computer. • Check to see if the monitor cable has bent pins. • Make sure the computer Power button is on.
Screen doesn't show when you turn on the monitor	• Make sure the monitor cable is properly connected to your computer. (Also refer to the Quick Start Guide). • Check to see if the monitor cable has bent pins. • Make sure the computer is turned on.

No color or intermittent color	• If you are using a non-VESA-DDC standard video card, turn the DDC1 / 2B feature Off.
Color appears blotchy	• The picture may need degaussing. • Remove any nearby magnetic objects. • Face the monitor toward the East for the best picture quality.
Missing one or more colors	• Check the Color Temperature. • Make sure the monitor cable is properly connected to your computer. • Check to see if the monitor cable has bent pins.
Dim Picture	• Adjust the Brightness and Contrast controls. • Check your video card and it's owner's manual instructions for it may be a non-VESA-DDC Standard card.
Picture is too large or too small.	• Adjust the Horizontal and/or Vertical Size. • Adjust the Zoom.
Edges of the picture are not square.	• Adjust the geometry.
Picture has a double image.	• Eliminate the use of a video extension cable and/or video switch box. • Face the monitor toward the East for the best picture quality.
Picture is not sharp.	• Check to make sure Moiré is switched off. • Adjust Sync Input.
Unstable Picture	• Increase your refresh rate.
Problem with On Screen Display	• Refer to the instructions and troubleshooting information in that chapter.

For further assistance, refer to the Consumer Information Centers list to contact your local Philips distributor.

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Regulatory Information

TCO '99 Information • TCO'99 Environmental Requirements •TCO '03 Information • Recycling Information for Customers • CE Declaration of Conformity • Energy Star Declaration • Federal Communications Commission (FCC) Notice (U.S. Only) • Commission Federale de la Communication (FCC Declaration) • EN 55022 Compliance (Czech Republic Only) • VCCI Class 2 Notice (Japan Only) • MIC Notice (South Korea Only) • Polish Center for Testing and Certification Notice • North Europe Information (Nordic Countries) • BSMI Notice (Taiwan Only) • Ergonomie Hinweis (nur Deutschland) • Philips End-of-Life Disposal • Information for UK only

Safety Precautions and Maintenance • Troubleshooting • Other Related Information

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TCO '99 Information (For TCO Model Only)

Congratulations!

You have just purchased a TCO' 99 approved and labeled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

Why do we have environmentally labeled computers?

In many countries, environmental labeling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem, as far as computers and other electronics equipment are concerned, is that environmentally harmful substances are used both in the products and during their manufacture. Since it is not so far possible to satisfactorily recycle the majority of electronics equipment, most of these potentially damaging substances sooner or later enter nature.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Since all methods of electricity generation have a negative effect on the environment (e.g. acidic and climate-influencing emissions, radioactive waste), it is vital to save energy. Electronics equipment in offices is often left running continuously and thereby consumes a lot of energy.

What does labeling involve?

This product meets the requirements for the TCO' 99 scheme which provides for international and environmental labeling of personal computers. The labeling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation) and Statens Energimyndighet (The Swedish National Energy Administration).

Approval requirements cover a wide range of issues: environment, ergonomics, usability, emission of electric and magnetic fields, energy consumption and electrical and fire safety.

The environmental demands impose restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons) and chlorinated solvents, among other things. The product must be prepared for recycling and the manufacturer is obliged to have an environmental policy which must be adhered to in each country where the company implements its operational policy.

The energy requirements include a demand that the computer and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level in one or more stages. The length of time to reactivate the computer shall be reasonable for the user.

Labeled products must meet strict environmental demands, for example, in respect of the reduction of electric and magnetic fields, physical and visual ergonomics and good usability.

Below you will find a brief summary of the environmental requirements met by this product. The complete environmental criteria document may be ordered from:

TCO Development

SE-114 94 Stockholm, Sweden

Fax: +46 8 782 92 07

Email (Internet): development@tco.se

Current information regarding TCO' 99 approved and labeled products may also be obtained via the Internet, using the address: http://www.tco-info.com/

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Environmental Requirements

Flame retardants

Flame retardants are present in printed circuit boards, cables, wires, casings and housings. Their purpose is to prevent, or at least to delay the spread of fire. Up to 30% of the plastic in a computer casing can consist of flame retardant substances. Most flame retardants contain bromine or chloride, and those flame retardants are chemically related to another group of environmental toxins, PCBs. Both the flame retardants containing bromine or chloride and the PCBs are suspected of giving rise to severe health effects, including reproductive damage in fish-eating birds and mammals, due to the bio-accumulative* processes. Flame retardants have been found in human blood and researchers fear that disturbances in fetus development may occur.

The relevant TCO' 99 demand requires that plastic components weighing more than 25 grams must not contain flame retardants with organically bound bromine or chlorine. Flame retardants are allowed in the printed circuit boards since no substitutes are available.

Cadmium**

Cadmium is present in rechargeable batteries and in the color-generating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses. The relevant TCO' 99 requirement states that batteries, the color-generating layers of display screens and the electrical or electronics components must not contain any cadmium.

Mercury**

Mercury is sometimes found in batteries, relays and switches. It damages the nervous system and is toxic in high doses. The relevant TCO' 99 requirement states that batteries may not contain any mercury. It also demands that mercury is not present in any of the electrical or electronics components associated with the labeled unit.

CFCs (freons)

The relevant TCO' 99 requirement states that neither CFCs nor HCFCs may be used during the

manufacture and assembly of the product. CFCs (freons) are sometimes used for washing printed circuit boards. CFCs break down ozone and thereby damage the ozone layer in the stratosphere, causing increased reception on earth of ultraviolet light with increased risks e.g. skin cancer (malignant melanoma) as a consequence.

Lead**

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning. The relevant TCO' 99 requirement permits the inclusion of lead since no replacement has yet been developed.

*** Bio-accumulative is defined as substances which accumulate within living organisms.**

**** Lead, Cadmium and Mercury are heavy metals which are bio-accumulative.**

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TCO' 03 Information (For TCO Model Only)

Congratulations!

The display you have just purchased carries the TCO'03 Displays label. This means that your display is designed, manufactured and tested according to some of the strictest quality and environmental requirements in the world. This makes for a high performance product, designed with the user in focus that also minimizes the impact on our natural environment.

Some of the features of the TCO'03 Display requirements.

Ergonomics

- Good visual ergonomics and image quality in order to improve the working environment for the user and to reduce sight and strain problems. Important parameters are luminance, contrast, resolution, reflectance, colour rendition and image stability.

Energy

- Energy-saving mode after a certain time-beneficial both for the user and the environment
- Electrical safety

Emissions

- Electromagnetic fields
- Noise emissions

Ecology

- The product must be prepared for recycling and the manufacturer must have a certified environmental management system such as EMAS or ISO 14 000
- Restrictions on
  - chlorinated and brominated flame retardants and polymers
  - heavy metals such as cadmium, mercury and lead.

The requirements included in this label have been developed by TCO Development in co-operation with scientists, experts, users as well as manufacturers all over the world. Since the end of the 1980s TCO has been involved in influencing the development of IT equipment in a more user-friendly direction. Our labelling system started with displays in 1992 and is now requested by users and IT-manufacturers all over the world.

For more information, please visit
www.tcodevelopment.com

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Recycling Information for Customers

Philips establishes technically and economically viable objectives to optimize the environmental performance of the organization's product, service and activities.

From the planning, design and production stages, Philips emphasizes the important of making products that can easily be recycled. At Philips, end-of-life management primarily entails participation in national take-back initiatives and recycling programs whenever possible, preferably in cooperation with competitors.

There is currently a system of recycling up and running in the European countries, such as The Netherlands, Belgium, Norway, Sweden and Denmark.

In U.S.A., Philips Consumer Electronics North America has contributed funds for the Electronic Industries Alliance (EIA) Electronics Recycling Project and state recycling initiatives for end-of-life electronics products from household sources. In addition, the Northeast Recycling Council (NERC) - a multi-state non-profit organization focused on promoting recycling market development - plans to implement a recycling program.

In Asia Pacific, Taiwan, the products can be taken back by Environment Protection Administration (EPA) to follow the IT product recycling management process, detail can be found in web site www.epa.gov.tw

For help and service, please contact Consumers Information Center or F1rst Choice Contact Information Center in each country or the following team of Environmental specialist can help.

Mr. Job Chiu - Environment manager
Philips Electronics Industries (Taiwan) Ltd, Monitor Business Unit
E-mail: job.chiu@philips.com
Tel: +886 (0) 3 454 9839

Mr. Maarten ten Houten - Senior Environmental Consultant
Philips Consumer Electronics
E-mail: marten.ten.houten@philips.com
Tel: +31 (0) 40 27 33402

Ms. Delmer F. Teglas
Philips Electronics North America
E-mail: butch.teglas@philips.com
Tel: +1 865 521 4322

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CE Declaration of Conformity

- Philips Consumer Electronics declare under our responsibility that the product is in conformity with the following standards
  - EN60950:2000 (Safety requirement of Information Technology Equipment)
  - EN55022:1998 (Radio Disturbance requirement of Information Technology Equipment)
  - EN55024:1998 (Immunity requirement of Information Technology Equipment)
  - EN61000-3-2:1995 (Limits for Harmonic Current Emission)
  - EN61000-3-3:1995 (Limitation of Voltage Fluctuation and Flicker)

  following provisions of directives applicable
  - 73/23/EEC (Low Voltage Directive)
  - 89/336/EEC (EMC Directive)
  - 93/68/EEC (Amendment of EMC and Low Voltage Directive)

  and is produced by a manufacturing organization on ISO9000 level.
- The product also comply with the following standards
  - ISO9241-3, ISO9241-7, ISO9241-8 (Ergonomic requirement for Visual Display)
  - ISO13406-2 (Ergonomic requirement for Flat panels)
  - GS EK1-2000 (GS specification)
  - prEN50279:1998 (Low Frequency Electric and Magnetic fields for Visual Display)
  - MPR-II (MPR:1990:8/1990:10 Low Frequency Electric and Magnetic fields)
  - TCO95, TCO99, TCO03 (Requirement for Environment Labelling of Ergonomics, Energy, Ecology and Emission,

  TCO: Swedish Confederation of Professional Employees) for TCO versions

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Energy Star Declaration

PHILIPS

107C5*

This monitor is equipped with a function for saving energy which supports the VESA Display Power Management Signaling (DPMS) standard. This means that the monitor must be connected to a computer which supports VESA DPMS to fulfill the requirements in the NUTEK specification 803299/94. Time settings are adjusted from the system unit by software.

NUTEK	VESA State	LED Indicator	Power Consumption
Normal operation	ON	Green	Typical 68W
Power Saving Alternative2 One Step	OFF	Flashing Green	< 1W

As an ENERGY STAR® Partner, PHILIPS has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

We recommend you switch off the monitor when it is not in use for quite a long time.

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Federal Communications Commission (FCC) Notice (U.S. Only)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Use only RF shielded cable that was supplied with the monitor when connecting this monitor to a computer device.

To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or excessive moisture.

THIS CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.

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Commission Federale de la Communication (FCC Declaration)

Cet équipement a été testé et déclaré conforme auxlimites des appareils numériques de class B,aux termes de l'article 15 Des règles de la FCC. Ces limites sont conçues de façon à fourir une protection raisonnable contre les interférences nuisibles dans le cadre d'une installation résidentielle. CET appareil produit, utilise et peut émettre des hyperfréquences qui, si l'appareil n'est pas installé et utilisé selon les consignes données, peuvent causer des interférences nuisibles aux communications radio. Cependant, rien ne peut garantir l'absence d'interférences dans le cadre d'une installation particulière. Si cet appareil est la cause d'interférences nuisibles pour la réception des signaux de radio ou de télévision, ce qui peut être décelé en fermant l'équipement, puis en le remettant en fonction, l'utilisateur pourrait essayer de corriger la situation en prenant les mesures suivantes:

- Réorienter ou déplacer l'antenne de réception.
- Augmenter la distance entre l'équipement et le récepteur.
- Brancher l'équipement sur un autre circuit que celui utilisé par le récepteur.
- Demander l'aide du marchand ou d'un technicien chevronné en radio/télévision.

Toutes modifications n'ayant pas reçu l'approbation des services compétents en matière de conformité est susceptible d'interdire à l'utilisateur l'usage du présent équipement.

N'utiliser que des câbles RF armés pour les connections avec des ordinateurs ou périphériques.

CET APPAREIL NUMERIQUE DE LA CLASSE B RESPECTE TOUTES LES EXIGENCES DU REGLEMENT SUR LE MATERIEL BROUILLEUR DU CANADA.

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EN 55022 Compliance (Czech Republic Only)

This device belongs to category B devices as described in EN 55022, unless it is specifically stated that it is a Class A device on the specification label. The following applies to devices in Class A of EN 55022 (radius of protection up to 30 meters). The user of the device is obliged to take all steps necessary to remove sources of interference to telecommunication or other devices.

Pokud není na typovém štítku počítače uvedeno, že spadá do do třídy A podle EN 55022, spadá automaticky do třídy B podle EN 55022. Pro zařízení zařazená do třídy A (chranné pásmo 30m) podle EN 55022 platí následující. Dojde-li k rušení telekomunikačních nebo jiných zařízeni je uživatel povinnen provést taková opatřgní, aby rušení odstranil.

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VCCI Notice (Japan Only)

This is a Class B product based on the standard of the Voluntary Control Council for Interference (VCCI) for Information technology equipment. If this equipment is used near a radio or television receiver in a domestic environment, it may cause radio Interference. Install and use the equipment according to the instruction manual.

Class B ITE

この装置は、情報処理装置等電波障害自主規制協議会 (VCCI) の基準に基づくクラス B 情報技術装置です。この装置は家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。

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MIC Notice (South Korea Only)

Class B Device

장치 종류	사용자 안내문
B급 기기	이 장치는 가정용으로 전자파 적합등록을 한 장치로서 주거지역에서는 물론 모든 지역에서 사용할 수 있습니다.

Please note that this device has been approved for non-business purposes and may be used in any environment, including residential areas.

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Polish Center for Testing and Certification Notice

The equipment should draw power from a socket with an attached protection circuit (a three-prong socket). All equipment that works together (computer, monitor, printer, and so on) should have the same power supply source.

The phasing conductor of the room's electrical installation should have a reserve short-circuit protection device in the form of a fuse with a nominal value no larger than 16 amperes (A).

To completely switch off the equipment, the power supply cable must be removed from the power supply socket, which should be located near the equipment and easily accessible.

A protection mark "B" confirms that the equipment is in compliance with the protection usage requirements of standards PN-93/T-42107 and PN-89/E-06251.

Wymagania Polskiego Centrum Badań i Certyfikacji

Urządzenie powinno być zasilane z gniazda z przyłączonym obwodem ochronnym (gniazdo z kołkiem). Współpracujące ze sobą urządzenia (komputer, monitor, drukarka) powinny być zasilane z tego samego źródła.

Instalacja elektryczna pomieszczenia powinna zawierać w przewodzie fazowym rezerwową ochronę przed zwarciami, w postaci bezpiecznika o wartości znamionowej nie większej niż 16A (amperów).

W celu całkowitego wyłączenia urządzenia z sieci zasilania, należy wyjąć wtyczkę kabla zasilającego z gniazdka, które powinno znajdować się w pobliżu urządzenia i być łatwo dostępne.

Znak bezpieczeństwa "B" potwierdza zgodność urządzenia z wymaganiami bezpieczeństwa użytkowania zawartymi w PN-93/T-42107 i PN-89/E-06251.

Pozostałe instrukcje bezpieczeństwa

- Nie należy używać wtyczek adapterowych lub usuwać kołka obwodu ochronnego z wtyczki. Jeżeli konieczne jest użycie przedłużacza to należy użyć przedłużacza 3-żyłowego z prawidłowo połączonym przewodem ochronnym.
- System komputerowy należy zabezpieczyć przed nagłymi, chwilowymi wzrostami lub spadkami napięcia, używając eliminatora przepięć, urządzenia dopasowującego lub bezzakłóceniowego źródła zasilania.
- Należy upewnić się, aby nic nie leżało na kablach systemu komputerowego, oraz aby kable nie były umieszczone w miejscu, gdzie można byłoby na nie nadeptywać lub potykać się o nie.
- Nie należy rozlewać napojów ani innych płynów na system komputerowy.
- Nie należy wpychać żadnych przedmiotów do otworów systemu komputerowego, gdyż może to spowodować pożar lub porażenie prądem, poprzez zwarcie elementów wewnętrznych.
- System komputerowy powinien znajdować się z dala od grzejników i źródeł ciepła. Ponadto, nie należy blokować otworów wentylacyjnych. Należy unikać kładzenia luźnych papierów pod komputer oraz umieszczania komputera w ciasnym miejscu bez możliwości cyrkulacji powietrza wokół niego.

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North Europe Information (Nordic Countries)

Placering/Ventilation

VARNING:

FÖRSÄKRA DIG OM ATT HUVUDBRYTARE OCH UTTAG ÄR LÄTÅTKOMLIGA, NÄR DU STÄLLER DIN UTRUSTNING PÅPLATS.

Placering/Ventilation

ADVARSEL:

SØRG VED PLACERINGEN FOR, AT NETLEDNINGENS STIK OG STIKKONTAKT ER NEMT TILGÆNGELIGE.

Paikka/Ilmankierto

VAROITUS:

SIJOITA LAITE SITEN, ETTÄ VERKKOJOHTO VOIDAAN TARVITTAESSA HELPOSTI IRROTTAA PISTORASIASTA.

Plassering/Ventilasjon

ADVARSEL:

NÅR DETTE UTSTYRET PLASSERES, MÅ DU PASSE PÅ AT KONTAKTENE FOR STØMTILFØRSEL ER LETTE Å NÅ.

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BSMI Notice (Taiwan Only)

符合乙類資訊產品之標準

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Ergonomie Hinweis (nur Deutschland)

Der von uns gelieferte Farbmonitor entspricht den in der "Verordnung über den Schutz vor Schäden durch Röntgenstrahlen" festgelegten Vorschriften.

Auf der Rückwand des Gerätes befindet sich ein Aufkleber, der auf die Unbedenklichkeit der Inbetriebnahme hinweist, da die Vorschriften über die Bauart von Störstrahlern nach Anlage III ¤ 5 Abs. 4 der Röntgenverordnung erfüllt sind.

Damit Ihr Monitor immer den in der Zulassung geforderten Werten entspricht, ist darauf zu achten, daß

1. Reparaturen nur durch Fachpersonal durchgeführt werden.
2. nur original-Ersatzteile verwendet werden.
3. bei Ersatz der Bildröhre nur eine bauartgleiche eingebaut wird.

Aus ergonomischen Gründen wird empfohlen, die Grundfarben Blau und Rot nicht auf dunklem Untergrund zu verwenden (schlechte Lesbarkeit und erhöhte Augenbelastung bei zu geringem Zeichenkontrast wären die Folge).

Der arbeitsplatzbezogene Schalldruckpegel nach DIN 45 635 beträgt 70dB (A) oder weniger.

ACHTUNG: BEIM AUFSTELLEN DIESES GERÄTES DARAUF ACHTEN, DAß NETZSTECKER UND NETZKABELANSCHLUß LEICHT ZUGÄNGLICH SIND.

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End-of-Life Disposal

Your new monitor contains materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and to minimize the amount to be disposed of.

Please find out about the local regulations on how to dispose of your old monitor from your local Philips dealer.

(For customers in Canada and U.S.A.)

This product may contain lead and/or mercury. Dispose of in accordance to local-state and federal regulations.
For additional information on recycling contact www.eia.org (Consumer Education Initiative)

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Information for UK only

WARNING - THIS APPLIANCE MUST BE EARTHED.

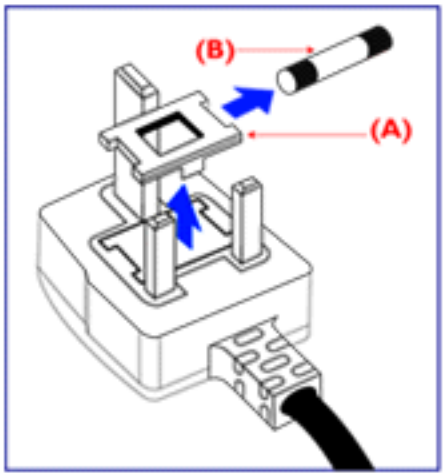
Important:

This apparatus is supplied with an approved moulded 13A plug. To change a fuse in this type of plug proceed as follows:

1. Remove fuse cover and fuse.

2. Fit new fuse which should be a BS 1362 5A,A. S.T.A. or BSI approved type.

3. Refit the fuse cover.



If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate 3-pin plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 5A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5A.

Note: The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13A socket elsewhere.

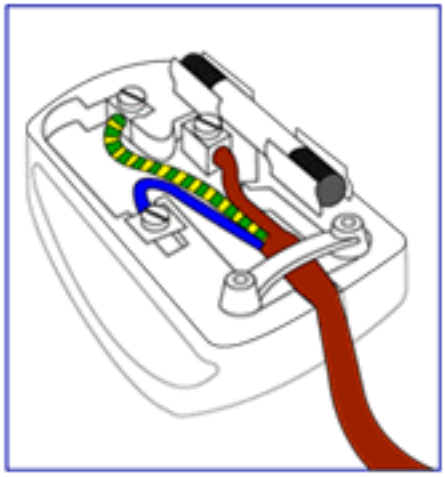
How to connect a plug

The wires in the mains lead are coloured in accordance with the following code:

BLUE - "NEUTRAL" ("N")

BROWN - "LIVE" ("L")

GREEN & YELLOW - "EARTH" ("E")



1. The GREEN AND YELLOW wire must be connected to the terminal in the plug which is marked with the letter "E" or by the Earth symbol ⏚ or coloured GREEN or GREEN AND YELLOW.

2. The BLUE wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.

3. The BROWN wire must be connected to the terminal which marked with the letter "L" or coloured RED.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the three wires.

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Other Related Information

Safety Precautions and Maintenance • Troubleshooting • Regulatory Information • Information for Users in the U. S. • Information for Users Outside the U.S

Information for Users in the U. S.

For units set at 115 V :

Use a UL Listed Cord Set consisting of a minimum 18 AWG, Type SVT or SJT three conductor cord a maximum of 15-feet long and a parallel blade, grounding type attachment plug rated 15 A, 125 V.

For units set at 230 V:

Use a UL Listed Cord Set consisting of a minimum 18 AWG, Type SVT or SJT three conductor cord a maximum of 15-feet long and a tandem blade, grounding type attachment plug rated 15 A, 250 V.

Information for Users outside the U.S.

For units set at 230 V:

Use a Cord Set rated minimum 5 A, 250 V (for units set at 230V) or 10A, 125V (for units set at 115V). The Cord Set should have the appropriate safety approvals for the country in which the equipment will be installed.

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6G3B11 Multimedia Base (option)

Front View • Rear View • Technical Specifications • Description of the Controls • Installing your Multimedia Base • Power adapter Installation

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Technical Specifications*

• Output power	2 x 1.5W RMS / 36W PMPO
• Bass Boost	
• Headphone connection	3.5 mm jack
• Microphone in/out	3.5 mm jack
• Includes	Audio cable and AC adapter
• Dimension	9.4" x 2.1" x 8.2" / 239 x 54 x 208 mm
• Power consumption	5W

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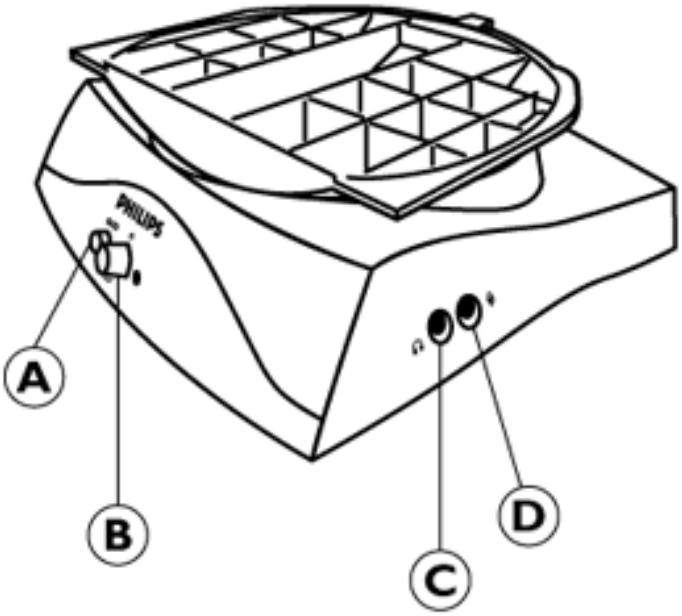
Description of the Controls

A. Bass button

Turn on or off to enhance the Bass sound.

B. Power knob / Volume knob

If the picture has wavy patterns when playing audio, reduce the volume.Turn clockwise to switch power on. Turning the knob more will increase the volume.



C. Headphone jack

Attach your headphones here. The loudspeakers will automatically switch off once headphones are connected.

D. Microphone jack

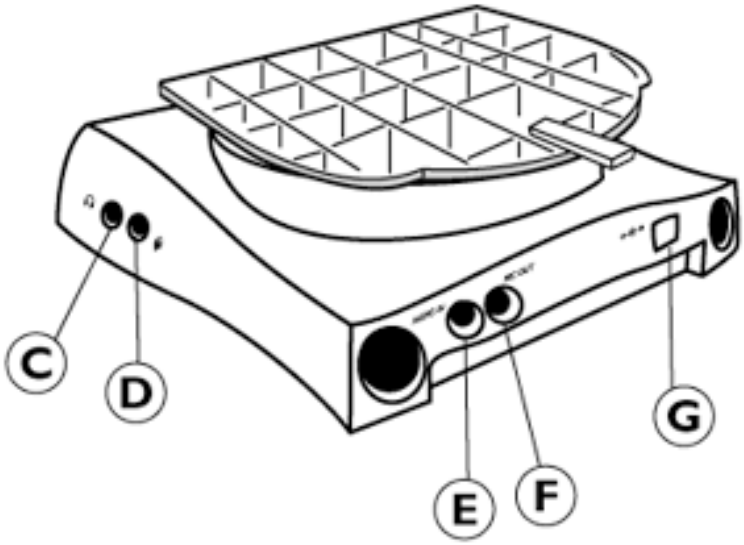
Attach your microphone here.

E. Audio In

Connect this to the audio output of your PC.

F. MIC Out

Connect this to the microphone output of your PC.



G. DC Input

Connect power input here.

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Installing your Multimedia Pedestal

1. To INSTALL

- Slide the pedestal, aligning with the holes on the side.
- Then click the back hook into the corresponding hole on the bottom plate of your monitor.

2. To UN-INSTALL

- Lift the back hook from the hole on the bottom plate of your monitor.
- Slide out the pedestal the opposite direction (from when you installed it).

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Power adapter Installation

Installing the adapter

There are two (2) ways of installing the adapter

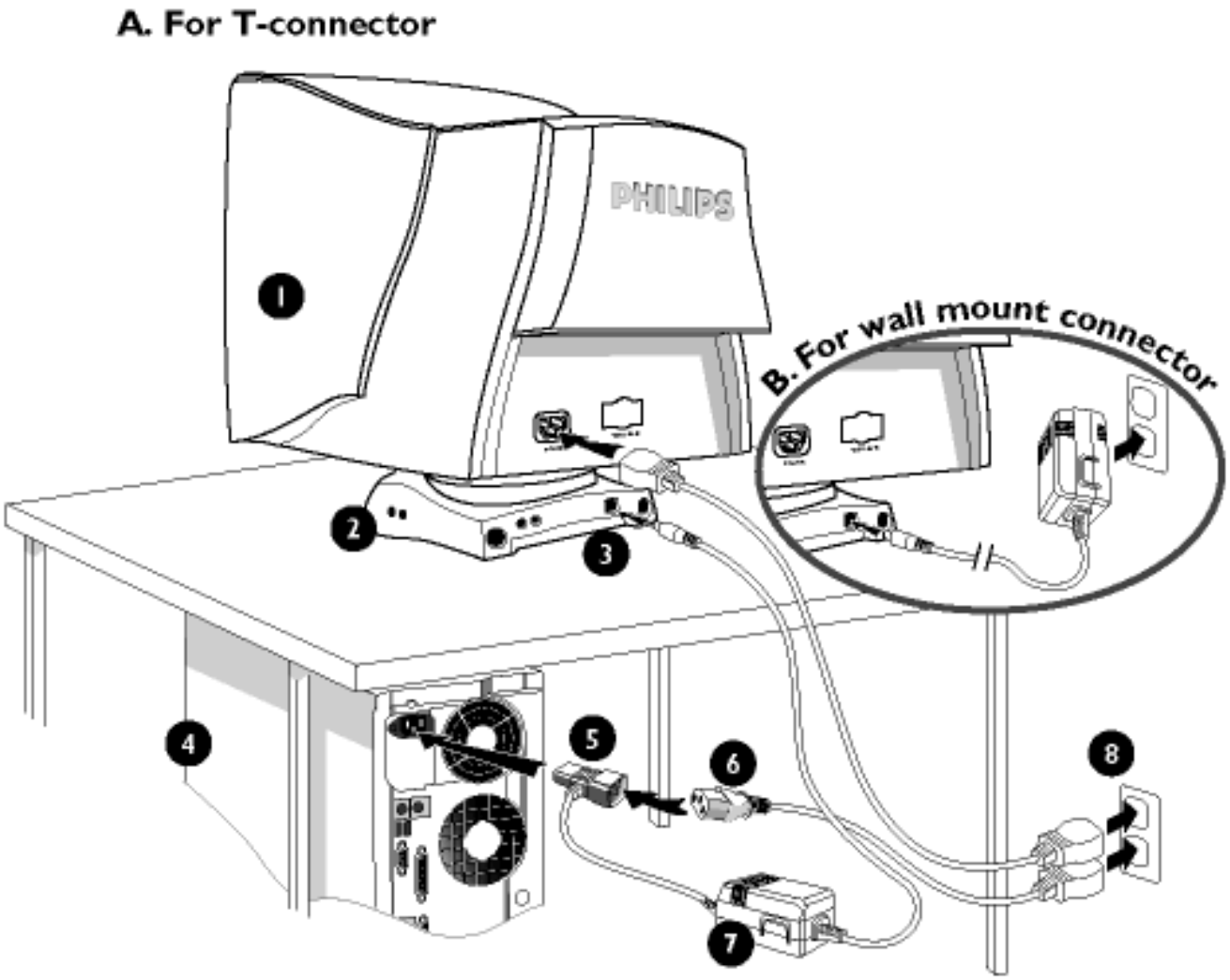
A. T-connector
B. Wall more connector

1	Monitor	5	T-connector

2 Multimedia Base
3 DC input
4 PC
6 PC power cord.
7 Transformer
8 Power outlet

Note:

Please keep 7 transformer away from 1 monitor as far as possible (at least 50 cm) to avoid cansing unstable monitor picture.



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The OSD Controls

Description of the On-Screen Display • The OSD Tree

The OSD Controls : Brightness (HotKey) • Contrast (HotKey) • Language • Zoom • Adjust Horizontal • Adjust Vertical • Adjust Shape • Adjust Color • Reset to Factory Settings • Extra Controls • Close Main Controls

---

BRIGHTNESS

To adjust your screen's brightness, follow the steps below. Brightness is the overall intensity of the light coming from the screen. A 50% brightness is recommended.

1) Press the + button on the monitor. The BRIGHTNESS window appears.

2) Press the − or + button to adjust the brightness.

3) When the brightness is adjusted to the level desired, press OK to confirm and the BRIGHTNESS window will disappear with the new adjustment saved.

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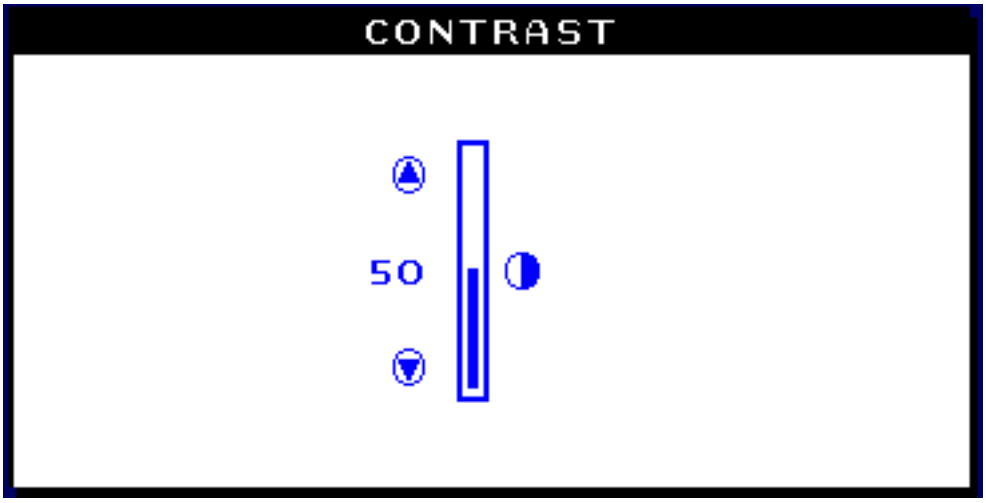
CONTRAST

To adjust your screen's contrast, follow the steps bellow. Contrast is the difference between the light and dark areas on the screen. A 100% contrast is recommended.

1) Press the button on the monitor. The CONTRAST window appears.



2) Press the or button to adjust the contrast.

3) When the contrast is adjusted to the level desired, press to confirm and the CONTRAST window will disappear with the new adjustment saved.

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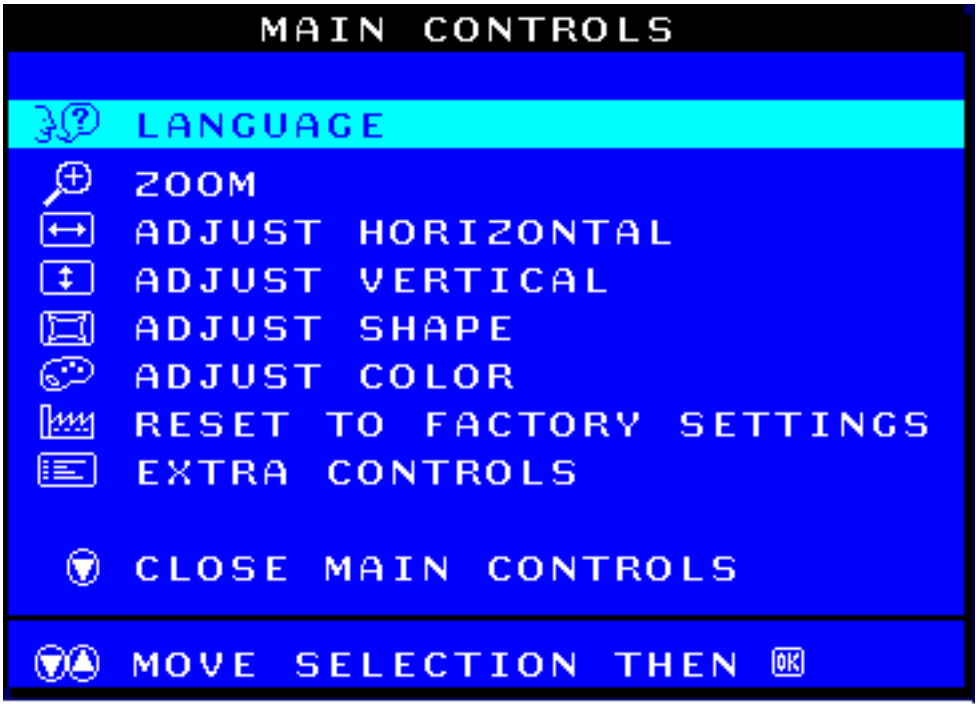
LANGUAGE

The ON SCREEN DISPLAY shows its settings in one of eight languages. The default is English, but you can select French, Spanish, German, Italian, Simplify-Chinese, Korea, or Brazilian Portuguese.

1) Press the button on the monitor. The MAIN CONTROLS window appears. LANGUAGE should be highlighted.

2) Press the button again. The LANGUAGE window appears.



3) Press the − or + button until the desired language is highlighted.

4) Press the OK button to confirm your selection and return to MAIN CONTROLS window. CLOSE MAIN CONTROLS will be highlighted.

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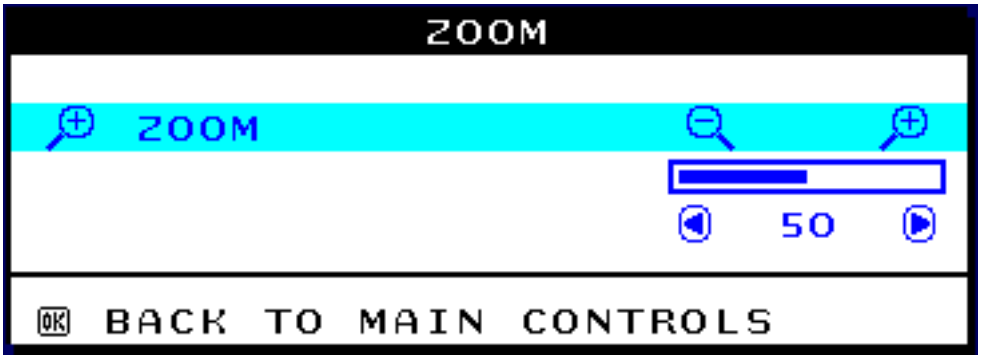
ZOOM

ZOOM increases or decreases the size of the images on your screen. To adjust the ZOOM follow the steps below.

1) Press the button on the monitor. The MAIN CONTROLS window appears.

2) Press the button until ZOOM is highlighted.

3) Press the button. The ZOOM window appears.



4) Press the or button to adjust ZOOM.

5) Press the button to confirm your selection and Press again return to the MAIN

CONTROLS window. CLOSE MAIN CONTROLS will be highlighted.

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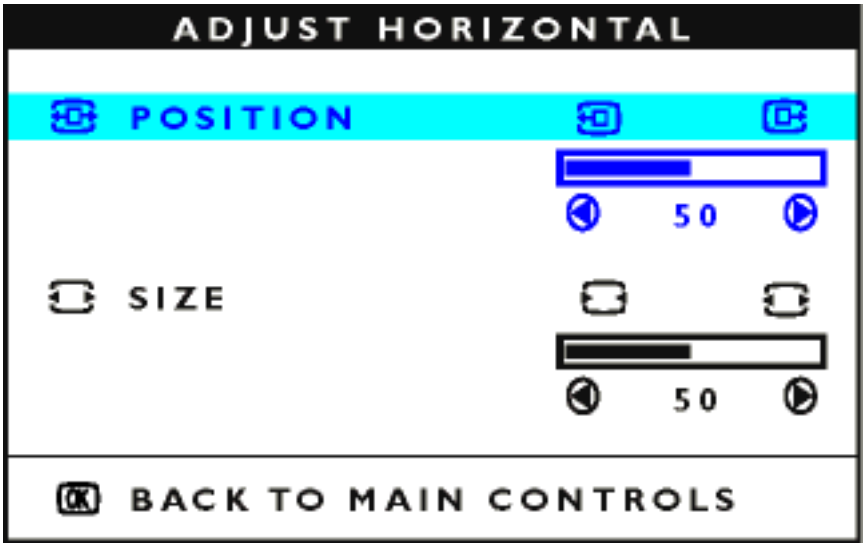
ADJUST HORIZONTAL

ADJUST POSITION under ADJUST HORIZONTAL shifts the image on your screen either to the left or right. Use this feature if your image does not appear centered. ADJUST SIZE under ADJUST HORIZONTAL expands or controls the image on your screen, pushing it out toward the left and right sides or pulling it in toward the center.

1) Press the button on the monitor. The MAIN CONTROLS window appears.

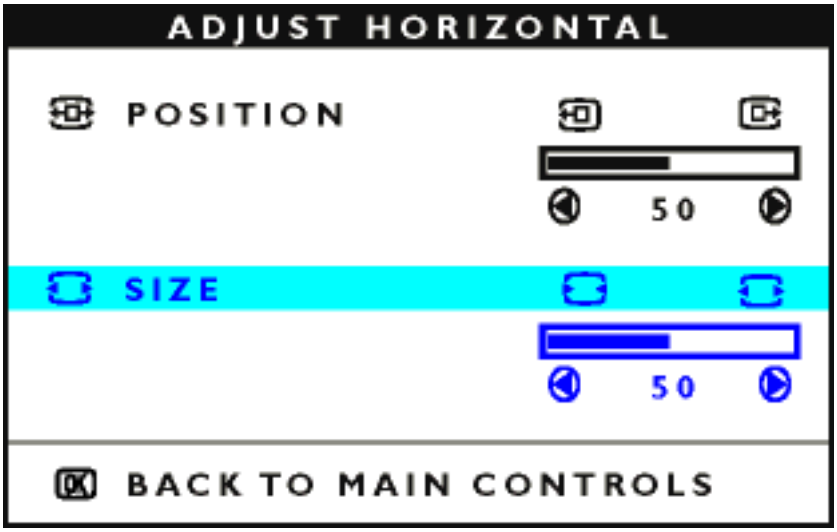
2) Press the button until ADJUST HORIZONTAL is highlighted.

3) Press the button. The ADJUST HORIZONTAL window appears. POSITION should be highlighted.



4) Press the − or + button to move the image to the left or right.

5) When the position is adjusted, press the OK button to confirm. Press the − to highlight SIZE, press OK to confirm.



6) To adjust the horizontal size, press the − or + button.

7) When the size is adjusted, press the OK button to confirm. Press OK again to return to MAIN CNTROLS sindow. CLOSE MAIN CONTROLS will be highlighted.

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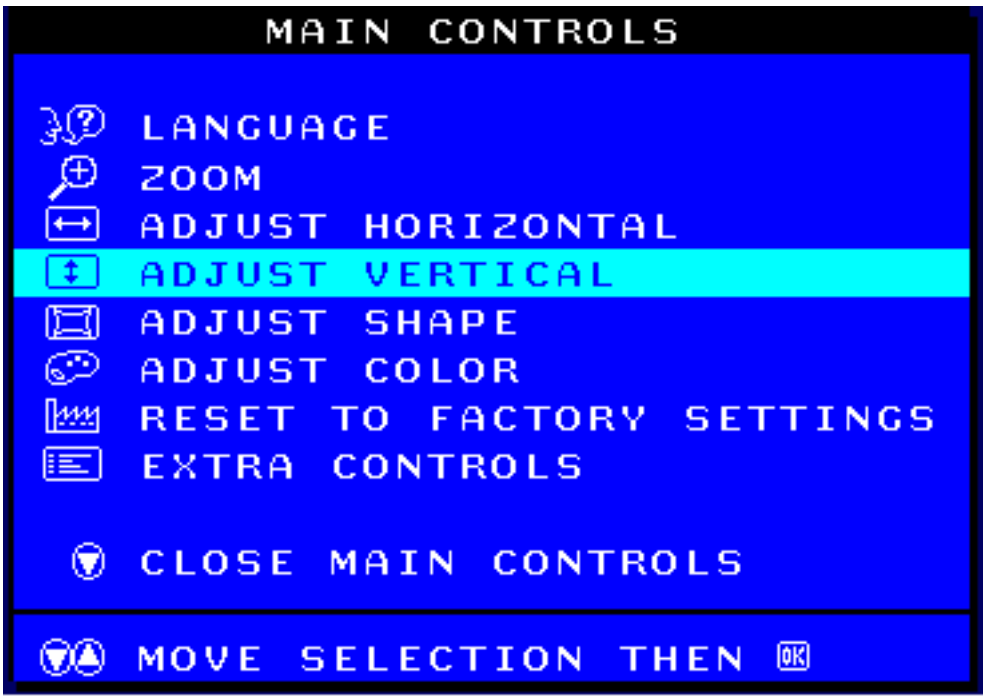
ADJUST VERTICAL

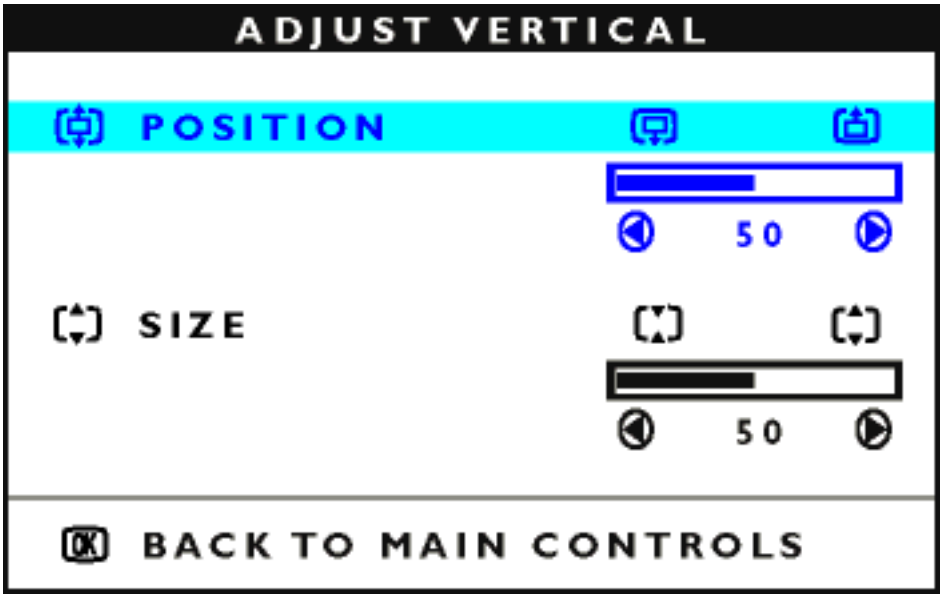
ADJUST POSITION under ADJUST VERTICAL shifts the image on your screen either up or down. Use this feature if your image does not appear centered. ADJUST SIZE under ADJUST VERTICAL expands or controls the image on your screen, pushing it out toward the top or bottom or pulling it in toward the center.

1) Press the button on the monitor. The MAIN CONTROLS window appears.

2) Press the button until ADJUST VERTICAL is highlighted.

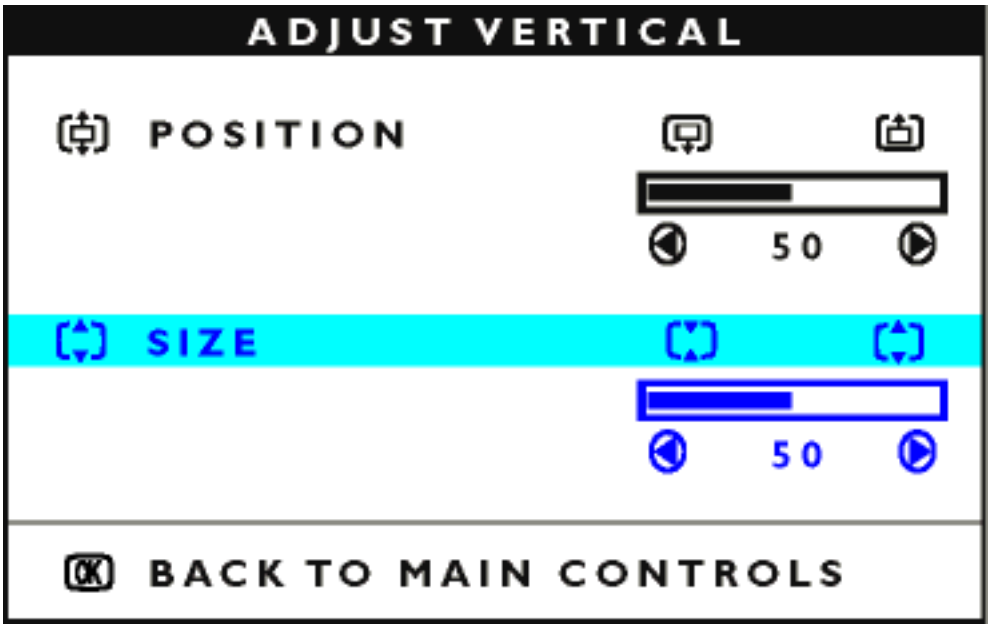


3) Press the button. The ADJUST VERTICAL window appears. POSITION should be highlighted.



4) Press the − or + button to move the image up or down.

5) When the position is adjusted, press the OSD button. Press OSD again to return to MAIN CONTROLS window, or press the − to highlight SIZE and OSD to confirm.



6) To adjust the vertical size, press the − or + button.

7) When the size is adjusted, press the OSD button to confirm. Press OSD return to MAIN CONTROLS window. CLOSE MAIN CONTROLS will be highlighted.

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ADJUST SHAPE

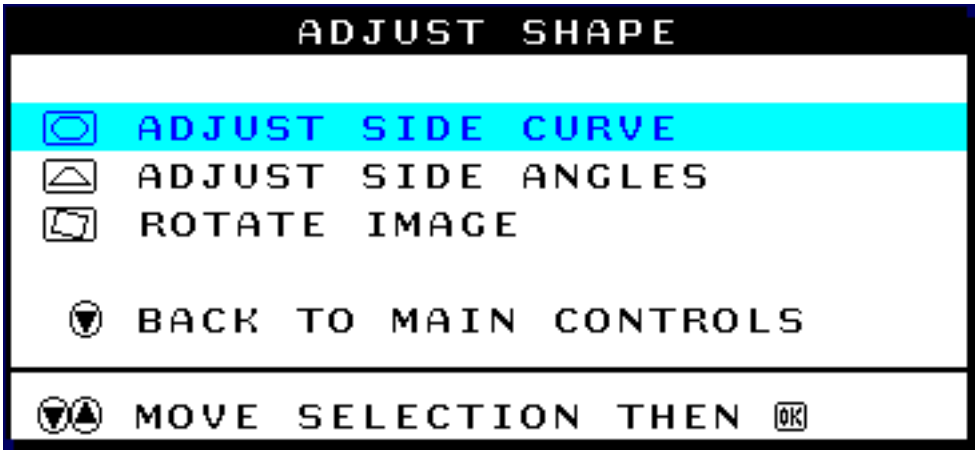
ADJUST SIDE CURVE

ADJUST SIDE CURVE under ADJUST SHAPE allows you to adjust two of the five preset options. These two options are PINCUSHION and BALANCED pincushion. Note: use these features only when the picture is not square.

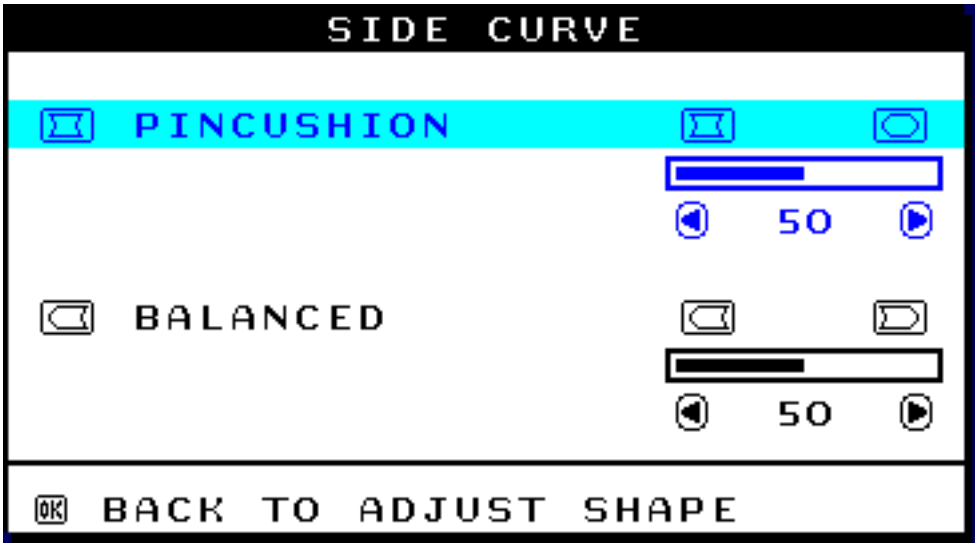
1) Press the button on the monitor. The MAIN CONTROLS window appears.

2) Press the button until ADJUST SHAPE is highlighted.

3) Press the button. The ADJUST SHAPE window appears. ADJUST SIDE CURVE should be highlighted.

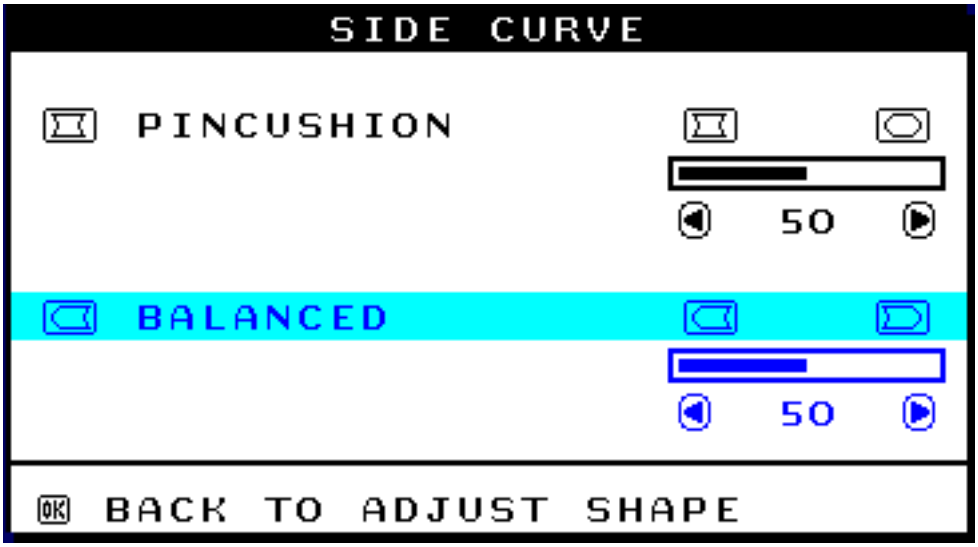


4) Press the button. The SIDE CURVE window appears. PINCUSHION should be highlighted. Press to confirm.



5) To adjust the pincushion, press the or button,press the to confirm.

6) When the pincushion is adjusted, press the button to highlight BALANCED. Press to confirm.



7) To adjust the balanced pincushion, press the − or + button.Press to confirm.

8) When the balanced pincushion is adjusted, press the button to return to the ADJUST SHAPE window. BACK TO MAIN WINDOWS will be highlighted.

9) Press the button to return to the MAIN CONTROLS window, or press the − button until ADJUST SIDE ANGLES is highlighted.

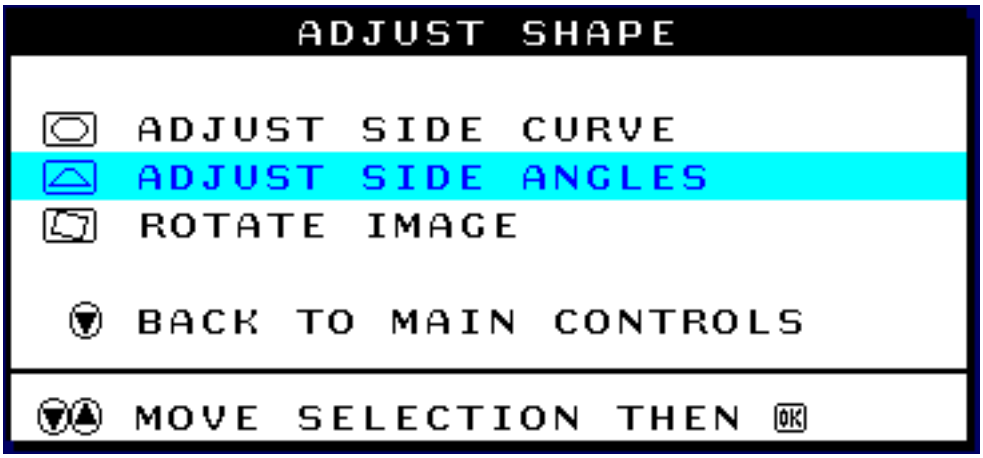
ADJUST SIDE ANGLES

ADJUST SIDE ANGLES under ADJUST SHAPE allows you to adjust two of the five preset options. These two options are TRAPEZOID and PARALLELOGRAM. Note: use these features only when the picture is not square.

1) Press the button on the monitor. The MAIN CONTROLS window appears.

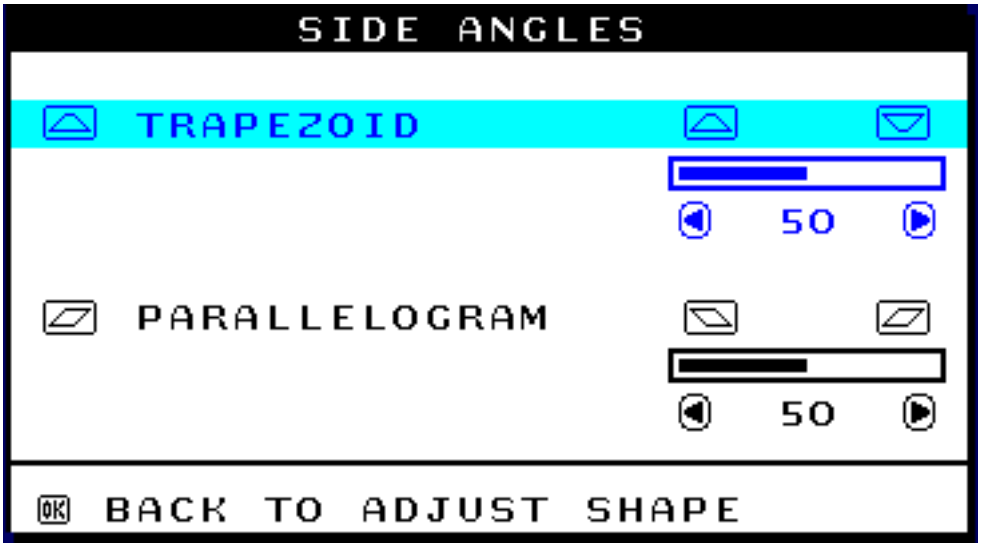
2) Press the + button until ADJUST SHAPE is highlighted.

3) Press the button. The ADJUST SHAPE window appears. ADJUST SIDE CURVE should be highlighted.



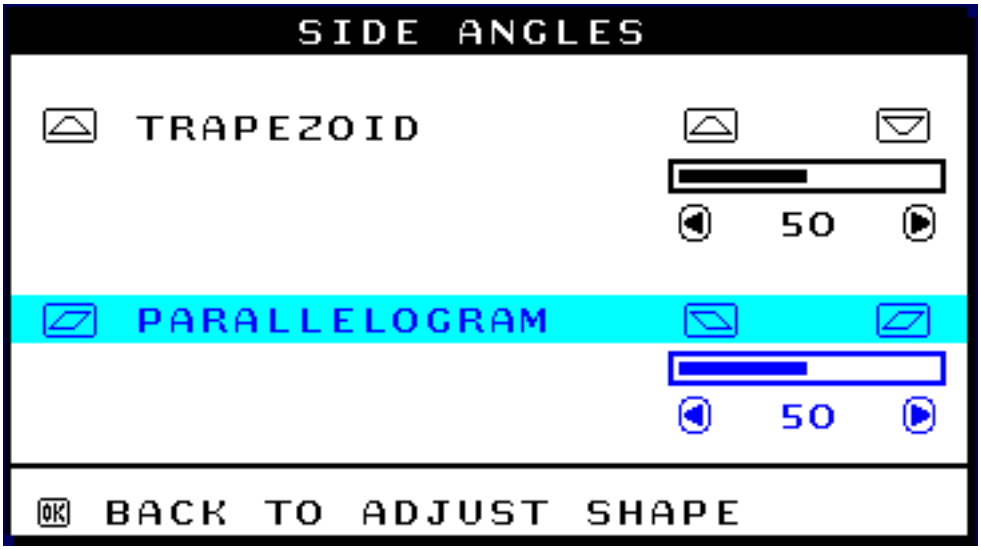
4) Press the button to highlight ADJUST SIDE ANGLES.

5) Press the button. The SIDE ANGLES window appears. TRAPEZOID should be highlighted, press to confirm.



6) To adjust the trapezoid, press the − or + button.

7) When the trapezoid is adjusted, press the OSD button to confirm. Then − to highlight PARALLELOGRAM, press OSD to confirm.



8) To adjust the parallelogram, highlight parallelogram then OSD to confirm. Press the − or + button to adjust..

9) When the parallelogram is adjusted, press the OSD button to confirm. Press OSD again to return to the ADJUST SHAPE window. BACK TO MAIN WINDOWS will be highlighted.

10) Press the OSD button to return to the MAIN CONTROLS window, or press the − button until

ROTATE IMAGE is highlighted.

ROTATE IMAGE (Not available in all models)

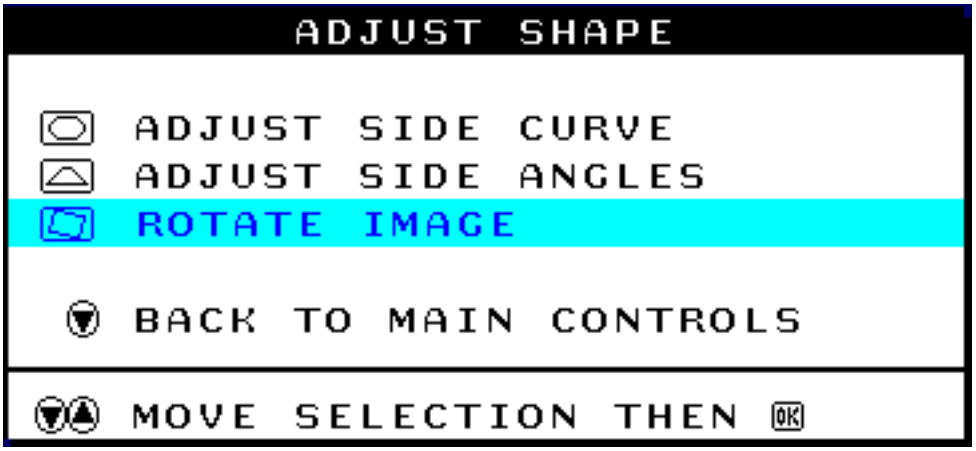
ROTATE IMAGE under ADJUST SHAPE allows you to adjust one of the five preset options. These two options are PINCUSHION and BALANCED pincushion. Note: use this feature only when the picture is not square.

1) Press the button on the monitor. The MAIN CONTROLS window appears.

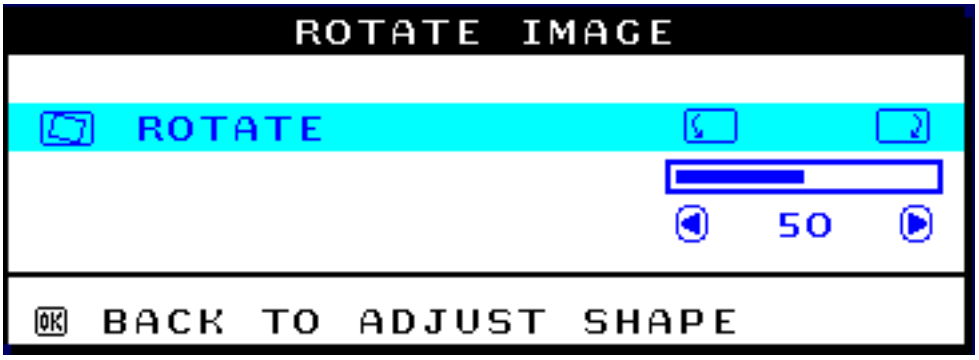
2) Press the button until ADJUST SHAPE is highlighted.

3) Press the button. The ADJUST SHAPE window appears. ADJUST SIDE CURVE should be highlighted.

4) Press the button until ROTATE IMAGE is highlighted.



5) Press the button. The ROTATE IMAGE window appears. ROTATE should be highlighted.



6) To adjust the rotation, press the or button.

7) When the rotation is adjusted, press the button to confirm. Press to return to the ADJUST SHAPE window. BACK TO MAIN CONTROLS should be highlighted.

8) Press the button to return to MAIN CONTROLS.

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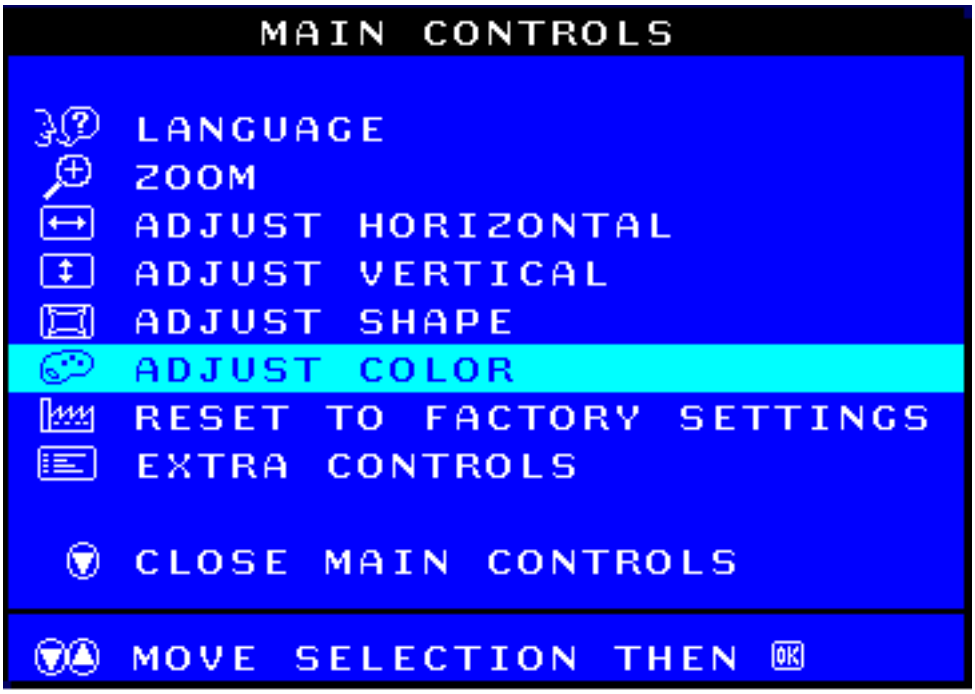
ADJUST COLOR

Your monitor has three preset options you can choose from. The first option is for GENERAL USE, which is fine for most applications. The second option is for IMAGE MANAGEMENT, which includes projects such as desktop publishing, viewing a DVD from your DVD player or pictures on the World

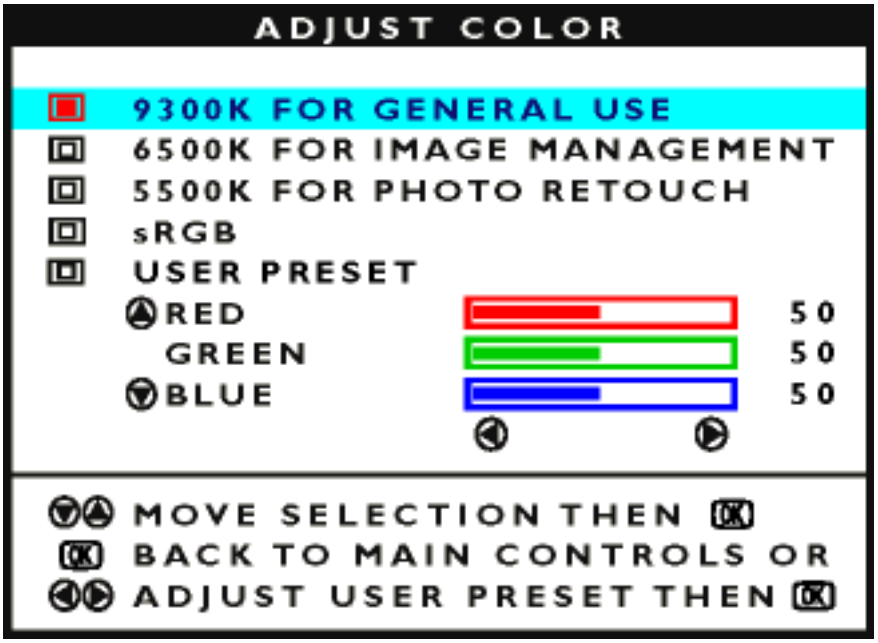
Wide Web, and playing video games. The third option is for PHOTO RETOUCH, which is for working with pictures you have imported into your computer and want to alter. When you select one of these options, the monitor automatically adjusts itself to that option. There is also a fourth option, USER PRESET, which allows you to adjust the colors on your screen to a setting you desire.

1) Press the button on the monitor. The MAIN CONTROLS window appears.

2) Press the button until ADJUST COLOR is highlighted.

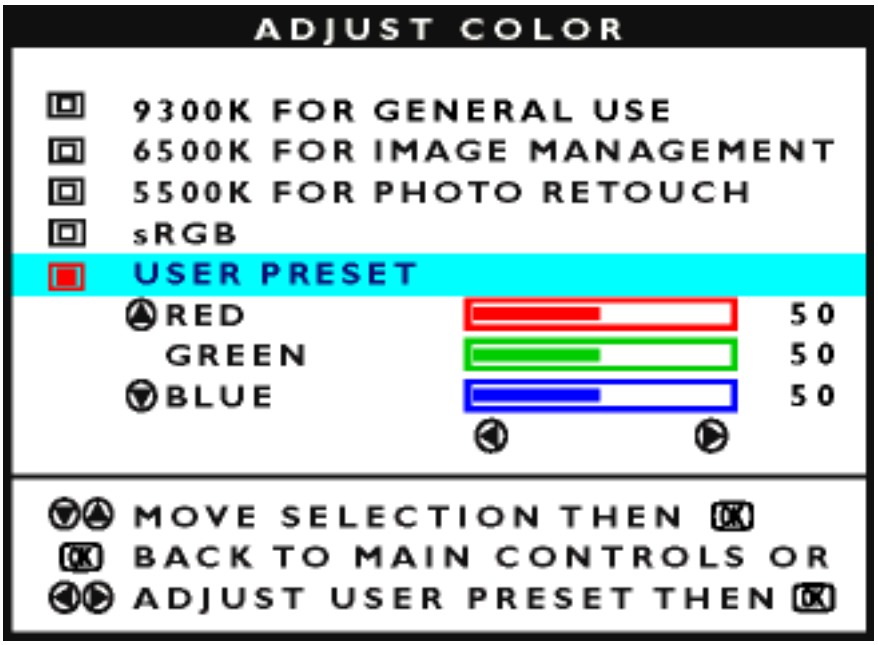


3) Press the button. The ADJUST COLOR window appears.



4) Press the − or + button to highlight 9300K for GENERAL USE, 6500K for IMAGE MANAGEMENT, 5500K for PHOTO RETOUCH, or USER PRESET.

5) Once you have highlighted GENERAL USE, IMAGE MANAGEMENT, or PHOTO RETOUCH, press the OK button to confirm you selection. Press OK again to return to the MAIN CONTROLS window. CLOSE MAIN CONTROLS will be highlighted.



6a) If USER PRESET is highlighted, press the OK button to highlight RED. Next, press the OK to confirm. Press − or + button to adjust the color red.

6b) When finished with RED, press to confirm. Press the button to highlight GREEN. press to confirm.Next, press the or button to adjust the color green.

6c) When finished GREEN, press to confirm.Then, press button to highlight BLUE.Press to confirm. Next, press the or button to adjust the color blue.

6d) When all adjustments are complete, press the button to confirm your adjustments and return to the MAIN CONTROLS window. CLOSE MAIN CONTROLS will be highlighted.

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RESET TO FACTORY SETTINGS

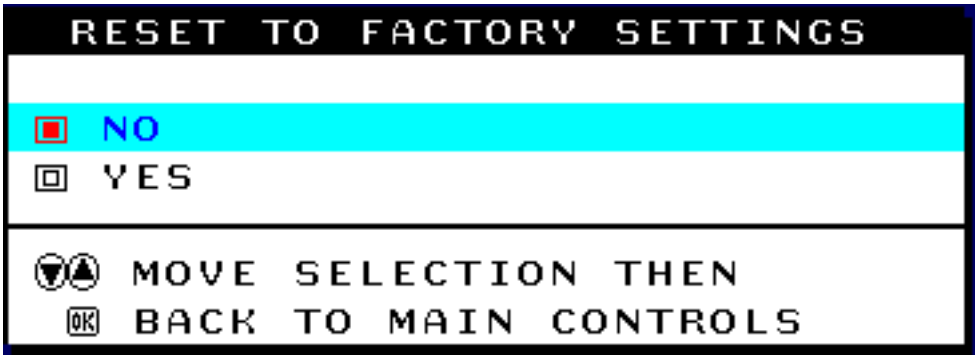
RESET TO FACTORY SETTINGS returns everything in all the windows to factory presets.

1) Press the button on the monitor. The MAIN CONTROLS window appears.

2) Press the button until RESET TO FACTORY SETTINGS is highlighted.

3) Press the button. The RESET TO FACTORY SETTINGS window appears.

4) Press the or button to select YES or NO. NO is the default. YES returns all settings to their original factory adjustments.



5) Press the button to confirm your selection and press again return to the MAIN CONTROLS window. CLOSE MAIN CONTROLS will be highlighted.

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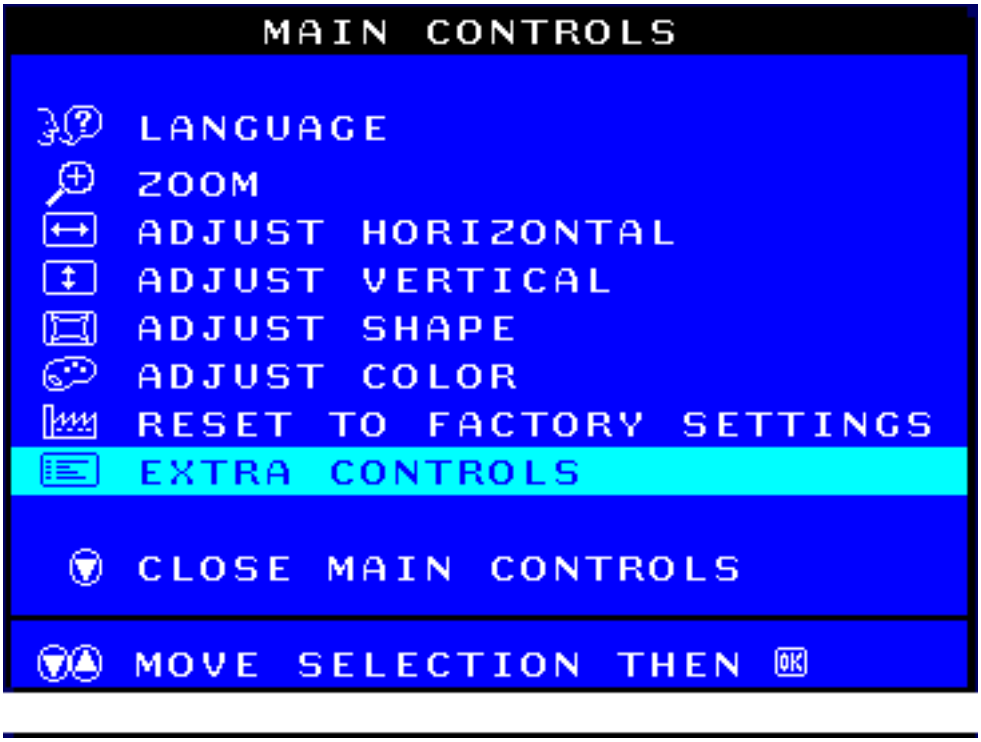
EXTRA CONTROLS

DEGAUSS

EXTRA CONTROLS is a set of three features, including DEGAUSS. Degaussing removes electromagnetic build up that may distort the color on your screen.

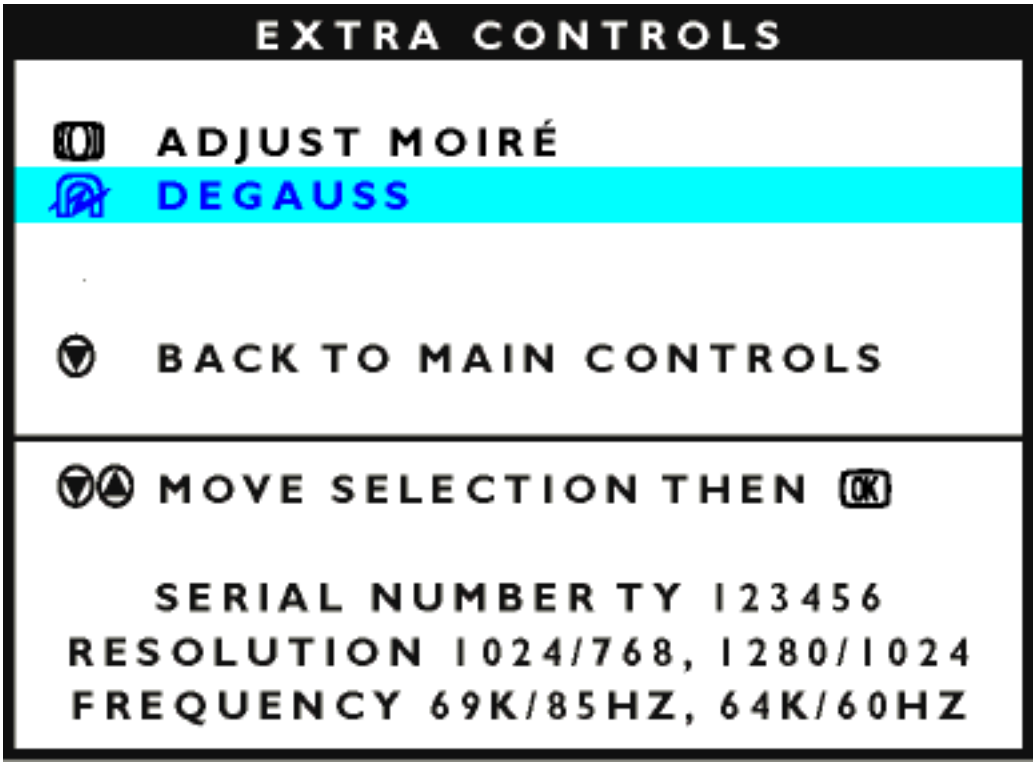
1) Press the button on the monitor. The MAIN CONTROLS window appears.

2) Press the button until EXTRA CONTROLS is highlighted.



3) Press the button. The EXTRA CONTROLS window appears. MOIRE will be highlighted.

4) Press the button to highlight DEGAUSS.



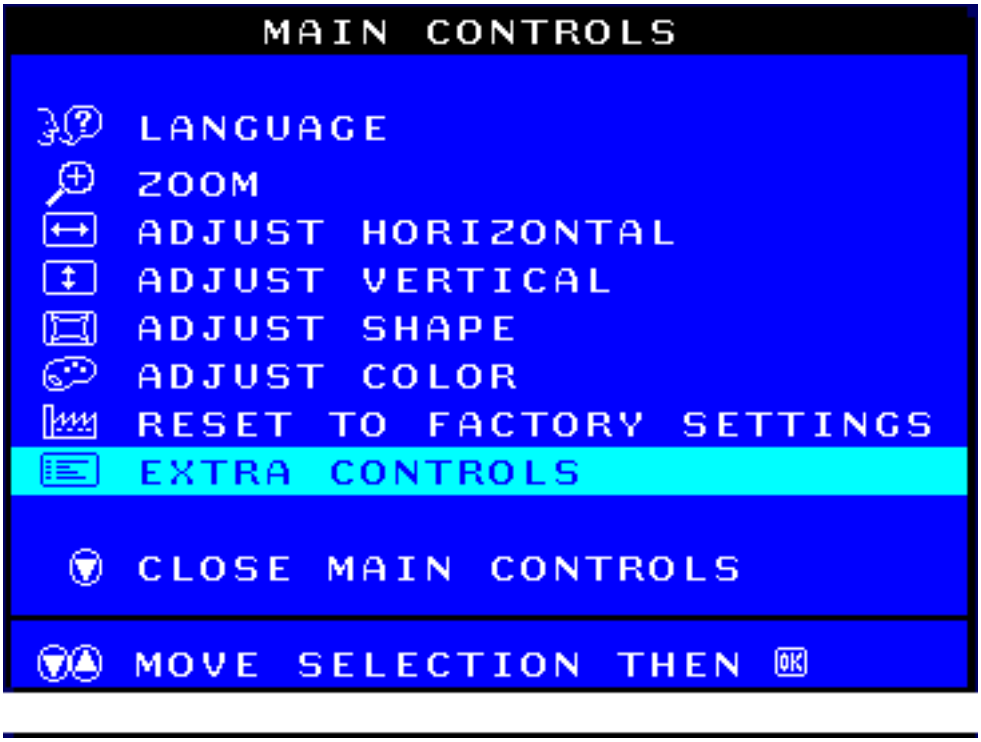
5) To degauss your screen, press the button. Your screen will be degaussed, then the MAIN CONTROLS window will reappear. CLOSE MAIN CONTROLS will be highlighted.

ADJUST MOIRE (Not available in all models)

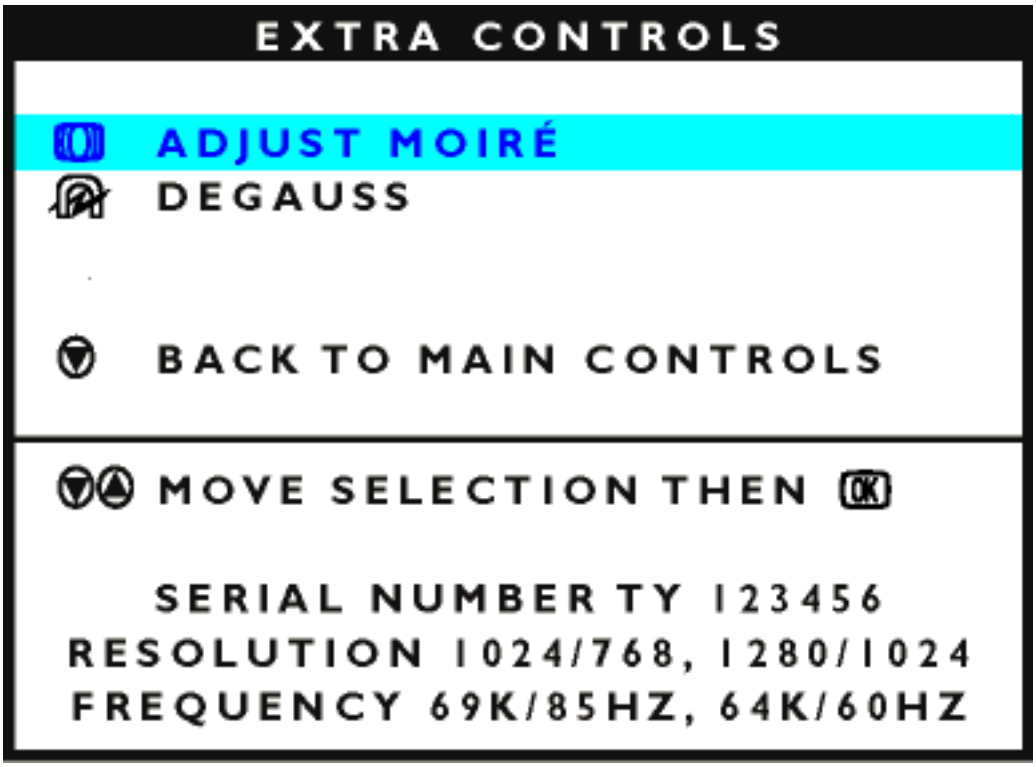
EXTRA CONTROLS is a set of three features, including ADJUST MOIRE. Moire is a fringe pattern arising from the interference between two superimposed line patterns. To adjust your moire, follow the steps below. Note: Use only if necessary. By activating ADJUST MOIRE, sharpness can be affected.

1) Press the button on the monitor. The MAIN CONTROLS window appears.

2) Press button until EXTRA CONTROLS is highlighted.

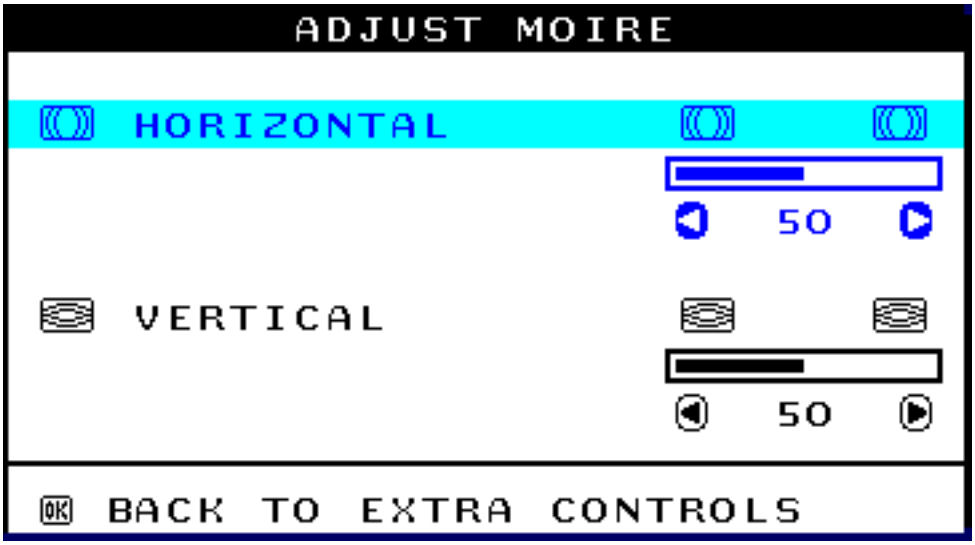


3) Press the button. The EXTRA CONTROLS window appears. ADJUST MOIRE will be highlighted.



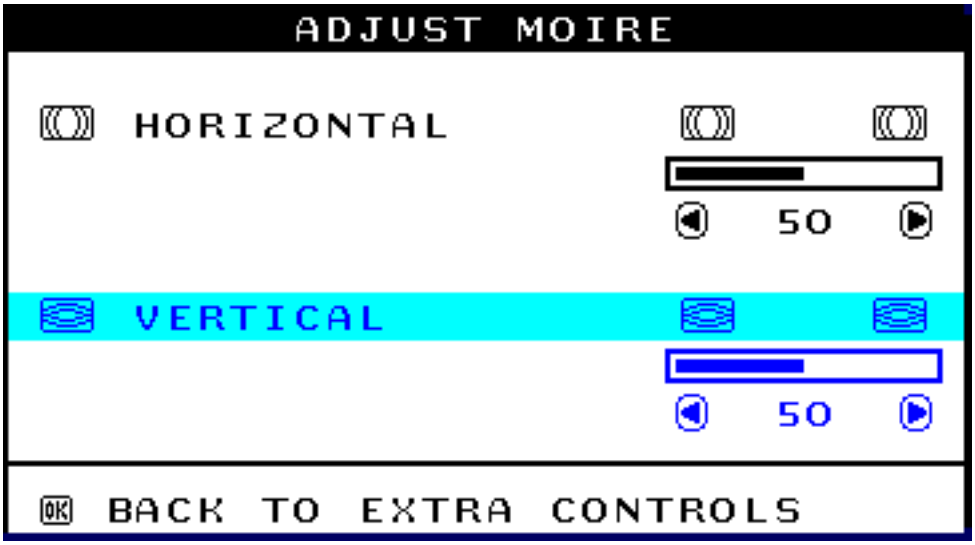
4) Press the button. The ADJUST MOIRE window appears. HORIZONTAL will be highlighted,

press to confirm.



5) To adjust the horizontal moire, press the or button.

6) When the horizontal moire is adjusted, press to confirm. Press the button to highlight VERTICAL.



7) To adjust the vertical moire, press to confirm. Then press or button to adjust.

8) When the vertical moire is adjusted, press the to confirm. Press the button to return to the EXTRA CONTROLS window. BACK TO MAIN CONTROLS will be highlighted.

CLOSE MAIN CONTROLS

RETURN TO TOP OF THE PAGE

Your Philips F1rst Choice Warranty

Thank you for purchasing this Philips monitor.

All Philips monitors are designed and manufactured to high standards and deliver high-quality performance, ease of use and ease of installation. Should you encounter any difficulties while installing or using this product, please contact the Philips helpdesk directly to benefit from your Philips F1rst Choice Warranty. This three-year service warranty entitles you to a swap model on-site if your monitor turns out to be faulty or defective.Philips aims at a swap within 48 hours of your call being received.

What is covered?

The Philips F1rst Choice Warranty applies within Andorra, Austria, Belgium, Cyprus, Denmark, France, Germany, Greece, Finland, Ireland, Italy, Liechtenstein, Luxembourg, Monaco, the Netherlands, Norway, Portugal, Sweden, Switzerland, Spain and the United Kingdom and only for monitors originally designed, manufactured, approved and/or authorized for usage within these countries.

Warranty coverage begins as from the day you buy your monitor. *For three years thereafter,* your monitor will be swapped by at least an equivalent monitor in case of defects provided for under the warranty coverage.

The swap monitor remains yours and Philips keeps the defective/original monitor. For the swap monitor the warranty period remains equal to that of your original monitor, being 36 months as from the purchase date of your original monitor.

What is excluded?

The Philips F1rst Choice Warranty applies provided the product is handled properly for its intended use, in accordance with its operating instructions and upon presentation of the original invoice or cash receipt, indicating the date of purchase, dealer's name and model and production number of the product.

The Philips F1rst Choice Warranty may not apply if:

- The documents have been altered in any way or made illegible;
- The model or production number on the product has been altered, deleted, removed or made illegible;

- Repairs or product modifications and alterations have been executed by unauthorized service organizations or persons;
- Damage is caused by accidents including but not limited to lightning, water or fire, misuse or neglect;
- Reception problems caused by signal conditions or cable or antenna systems outside the unit;
- Defects caused by abuse or misuse of the monitor;
- Product requires modification or adaptation to enable it to comply with local or national technical standards, which apply in countries for which the product was not originally designed, manufactured, approved and/or authorized. Therefore always check whether a product can be used in a specific country.
- Note that products that are not originally designed, manufactured, approved and/or authorized for usage within the Philips F1rst Choice countries, do not apply to the Philips F1rst Choice Warranty. In these cases the Philips global warranty terms are valid.

Just a click away

In case of any problems, we advise you to read the operating instructions carefully or go to the www.philips.com/support website for additional support.

Just a phone call away

In order to avoid unnecessary inconvenience, we advise you to read the operating instructions carefully or go to the www.philips.com/support website for additional support before contacting the Philips helpdesk.

To solve your problem quickly, please prepare the following details before contacting the Philips helpdesk:

- Philips type number
- Philips serial number
- Purchase date (copy of purchase may be required)
- PC environment Processor:
    - 286/386/486/Pentium Pro/Internal memory
    - Operating system (Windows, DOS, OS/2, MAC)
    - Fax/Modem/Internet program?
- Other cards installed

Having the following information available will also help speed up the process:

- Your proof of purchase indicating: date of purchase, dealer name, model and product serial number.
- The full address to which the faulty monitor has to be collected and the swap model should be delivered.

Philips' customer help desks are located worldwide. Click here to access the F1rst Choice Contact Information.

Or you can reach us via:
Website: *http://www.philips.com/support*

Your International Guarantee

Dear Customer,

Thank you for purchasing this Philips product which has been designed and manufactured to the highest quality standards.

If, unfortunately, something should go wrong with this product Philips guarantees free of charge labor and replacement parts irrespective of the country where it is repaired during a period of 12 months from date of purchase. This international Philips guarantee complements the existing national guarantee obligations to you of dealers and Philips in the country of purchase and does not affect your statutory rights as a customer.

The Philips guarantee applies provided the product is handled properly for its intended use, in accordance with its operating instructions and upon presentation of the original invoice or cash receipt, indicating the date of purchase, dealer's name and model and production number of the product.

The Philips guarantee may not apply if:

- the documents have been altered in any way or made illegible;
- the model or production number on the product has been altered, deleted, removed or made illegible;
- repairs or product modifications and alterations have been executed by unauthorized service organizations or persons;
- damage is caused by accidents including but not limited to lightning, water or fire, misuse or neglect.

Please note that the product is not defective under this guarantee in the case where modifications become necessary in order for the product to comply with local or national technical standards which apply in countries for which the product was not originally designed and/or manufactured. Therefore always check whether a product can be used in a specific country.

In case your Philips product is not working correctly or is defective, please contact your Philips dealer. In the event you require service whilst in another country a dealer address can be given to you by the Philips Consumer Help Desk in that country, the telephone and fax number of which can be found in the relevant part of this booklet.

In order to avoid unnecessary inconvenience, we advise you to read the operating instructions carefully before contacting your dealer. If you have questions which your dealer cannot answer or any related question please contact the Philips Consumer Information Centers or via:

Website: *http://www.philips.com*

Philips F1rst Choice Warranty

Thank you for purchasing this Philips monitor.

All Philips monitors are designed and manufactured to high standards and deliver high-quality performance, ease of use and ease of installation. Should you encounter any difficulties while installing or using this product, please contact Philips directly to benefit from your Philips F1rst Choice Warranty. This three-year service warranty entitles you to a swap model on-site within 48 hours of your call being received within the first year of purchase. If you have any problems with your monitor within the second or third year of purchase, we will repair it after it has been sent to the service provider at your expense and returned to you within five working days, free of charge.

LIMITED WARRANTY (Computer Monitor)

Click here to access the Warranty Registration Card

Three Years Free Labor / Three Years Free Service on Parts / One Year Exchange*

**Product will be exchanged with a new or renewed to original specifications unit within two business days for the first year. This product must be shipped in at your expense for service during years two and three.*

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase. Attach it to this owner's manual and keep both nearby.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. *For three years thereafter,* all parts will be repaired or replaced, and labor is free. *After three years from the day of purchase,* you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period.

When the warranty on the original product expires, the warranty on all replaced and repaired products and parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product used for commercial or institutional purposes.

Where IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics. In countries where Philips Consumer Electronics does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

Where CAN I GET MORE INFORMATION?

For more information, contact the Philips Customer Care Center by calling (877) 835-1838 (U.S.A. customers only) or (919) 573-7855.

Before Requesting Service...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...

Contact the Philips Customer Care Center phone number listed below for product assistance and procedures for servicing:

Philips Customer Care Center

(877) 835-1838 or (919) 573-7855

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

(800) 479-6696

Three years free parts and three years free labor will be provided at Philips Canada depot or any one of its authorized service centers.

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER... Please record the model and serial numbers found on the product below.

MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Before contacting Philips, please prepare the following details so we can solve your problem quickly.

- Philips type number
- Philips serial number
- Purchase date (copy of purchase may be required)
- PC environment Processor:
  - 286/386/486/Pentium Pro/Internal memory
  - Operating system (Windows, DOS, OS/2, MAC)
  - Fax/Modem/Internet program?
- Other cards installed
  Having the following information available will also help speed up the process:
- Your proof of purchase indicating: date of purchase, dealer name, model and product serial number.
- The full address to which the faulty monitor has to be collected and the swap model should be delivered.

Just a phone call away

Philips' customer help desks are located worldwide. Within the U.S. you can contact Philips customer care Monday-Friday from 8:00 AM-9:00 PM Eastern Time (ET) and on Saturdays from 10:00 AM-5:00 PM ET hrs by using one of the contact phone numbers.

For more information on this and more great Philips products visit our website at:

Website: *http://www.philipsusa.com*

F1rst Choice Contact Information

Telephone numbers:

Austria	01 546 575 603
Belgium	02 275 0701
Cyprus	800 92256
Denmark	35 25 87 61
France	03 8717 0033
Germany	0696 698 4712
Greece	00800 3122 1223
Finland	09 2290 1908
Ireland	01 601 1161
Italy	02 48 27 11 53
Luxembourg	026 84 3000
The Netherlands	053 482 9800
Norway	22 70 82 50
Portugal	0800 831 363
Sweden	08 632 0016
Switzerland	02 23 10 21 16
Spain	09 17 45 62 46
United Kingdom	0207 949 0069

* Calls charged at local rates

Consumer Information Centers

Antilles • Argentina • Australia • Bangladesh • Brasil • Canada • Chile • China • Colombia • Czech Republic • Dubai • Egypt • Hong Kong • Hungary • Slovakia• Slovenia • India• Indonesia • Japan • Korea • Malaysia • Mexico • Morocco • New Zealand • Pakistan • Paraguay • Peru • Philippines • Poland • Russia • Singapore • South Africa • Taiwan • Thailand • Turkey • Uruguay • Venezuela

Eastern Europe

CZECH REPUBLIC

Xpectrum
Lužná 591/4
CZ - 160 00 Praha 6
Tel: 800 100 697
Email:info@xpectrum.cz
www.xpectrum.cz

HUNGARY

Serware Szerviz
Vizimolnár u. 2-4
HU - 1031 Budapest
Tel: +36 1 2426331
Email: inbox@serware.hu
www.serware.hu

SLOVAKIA

Datalan Servisne Stredisko
Puchovska 8
SK - 831 06 Bratislava
Tel: +421 2 49207155
Email: servis@datalan.sk

SLOVENIA

PC HAND
Brezovce 10
SI - 1236 Trzin
Tel: +386 1 530 08 24
Email: servis@pchand.si

POLAND

Zolter
ul.Zytnia 1
PL - 05-500 Piaseczno
Tel:+48 22 7501766
Email: servmonitor@zolter.com.pl
www.zolter.com.pl

RUSSIA

Tel: +7 095 961-1111
Tel: 8-800-200-0880
Web-site: www.philips.ru

TURKEY

Türk Philips Ticaret A.S.
Yukari Dudullu Org.San.Bolgesi
2.Cadde No:22
34776-Umraniye/Istanbul
Tel: (0800)-261 33 02

Latin America

ANTILLES

Philips Antillana N.V.Kaminda A.J.E. Kusters 4
Zeelandia, P.O. box 3523-3051
Willemstad, Curacao
Phone: (09)-4612799
Fax : (09)-4612772

ARGENTINA

Vedia 3892 Capital Federal
CP:1430 Buenos Aires
Phone: (011)-4544 2047
Fax: (011)-4544 2928

BRASIL

Philips da Amazonia Ind. Elet.Ltda.
Av.Luis Carlos Berrini,
1400-Sao Paulo-SP
Phone: 0800-7010-203

CHILE

Philips Chilena S.A.
Avenida Santa Maria 0760
P.O. box 2687Santiago de Chile
Phone: (02)-730 2000
Fax : (02)-777 6730

COLOMBIA

Industrias Philips de Colombia
S.A.-Division de Servicio
CARRERA 15 Nr. 104-33
Bogota, Colombia
Phone: (01)-8000-111001 (toll free)
Fax : (01)-619-4300/619-4104

MEXICO

Consumer Information Centre
Norte 45 No.669
Col. Industrial Vallejo
C.P.02300, -Mexico, D.F.
Phone: (05)-3687788 / 9180050462
Fax : (05)-7284272

PARAGUAY

Philips del Paraguay S.A.
Avenida Artigas 1513
Casilla de Correos 605
Asuncion
Phone: (021)-211666
Fax : (021)-213007

PERU

Philips Peruana S.A.
Customer Desk
Comandante Espinar 719
Casilla 1841
Limab18
Phone: (01)-2136200
Fax : (01)-2136276

URUGUAY

Ind.Philips del Uruguay S.A.
Lius Alberto de Herrera 1248-P:10
Customer Help Desk 11300 Montevideo
Phone: (02)-6281111
Fax : (02)-6287777

VENEZUELA

Industrias Venezolanas Philips S.A.
Apartado Postal 1167
Caracas 1010-A
Phone: (02) 2377575
Fax : (02) 2376420

Canada

CANADA

Philips Electronics Ltd.
281 Hillmount Road Markham Ontario,
L6C 2S3
Phone: 800- 479-6696
Fax:905-887-3974

Pacific

AUSTRALIA

Philips Consumer Service.
Customer Information Centre.
3 Figtree Drive
Homebush Bay NSW 2140
Phone: CIC:1300 363 391, PCE Service:1 300-361 392
Fax:+61 2 9947 0063

NEW ZEALAND

Philips New Zealand Ltd.
Consumer Help Desk
2 Wagener Place, Mt.Albert
P.O. box 1041
Auckland
Phone: 0800 477 999 (Toll Free)
Fax:0800 288 588

Asia

BANGLADESH

Philips Service Centre
100 Kazi Nazrul Islam
Avenue Kawran Bazar C/A
Dhaka-1215
Phone: (02)-812909
Fax : (02)-813062

CHINA

SHANHAI
No. 1102 wuding road, jing an district,
200040 Shanghai,
P.R. China
Phone: 800 820 5128 (Toll Free)
Fax:21-65610647

NANJING
No. 12-2 dong da ying bei, zhu jiang road,
210018 Nanjing,
P.R. China
Phone: 800 820 5128 (Toll Free)
Fax:21-65610647

HANGZHOU
No. 20 jiao gong road,
310012 Hangzhou,
P.R. China
Phone: 800 820 5128 (Toll Free)
Fax:21-65610647

BEIJING
No. 171-3 hai dian road, hai dian district,
100086 Beijing,
P.R. China
Phone: 800 820 5128 (Toll Free)
Fax:21-65610647

SHENYANG
No. 84-1 san hao street,
110003 Shenyang
P.R. China
Phone: 800 820 5128 (Toll Free)
Fax:21-65610647

XIAN
No. 6-9 yan ta road south part,
710061 Xian,
P.R. China
Phone: 800 820 5128 (Toll Free)
Fax:21-65610647

GUANGZHOU
No. 15-17 long kou dong road, tian he district,

510070 Guangzhou,
P.R. China
Phone: 800 820 5128 (Toll Free)
Fax:21-65610647

SHENZHEN
Room 603, electronic BLD, No. 30 Shen nan zhong road,
518031 Shenzhen,
P.R. China
Phone: 800 820 5128 (Toll Free)
Fax:21-65610647

CHANGSHA
Room 18, He yi computer city, chao yang road,
Changsha,
P.R. China
Phone: 800 820 5128 (Toll Free)
Fax:21-65610647

WUHAN
No. 60-66 gui yuan road, hong shan district,
430070 Wuhan,
P.R. China
Phone: 800 820 5128 (Toll Free)
Fax:21-65610647

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Chengdu Sience-technolege university service BLD, No. 24 nan yi duan of
Yi huan road,
410061 Chengdu,
P.R. China
Phone: 800 820 5128 (Toll Free)
Fax:21-65610647

HONG KONG

Philips Hong Kong Limited
Consumer Information Centre
16/F Hopewell Centre
17 Kennedy Road, WANCHAI
Phone: 2619-9663
Fax: 2481 5847

INDIA

BOMBAY
Philips India
Customer Relation Centre
Bandbox House
254-D Dr. A Besant Road, Worli
Bombay 400 025
Phone: (020)-712 2048 ext 2765
Fax:(020)-712 1558

CALCUTTA
Customer Relation Centre
7 justice Chandra Madhab Road
Calcutta 700 020
Phone: (020)-712 2048 ext 2765
Fax:(020)-712 1558

MADRAS
Customer Relation Centre
3, Haddows Road
Madras 600 006
Phone: (020)-712 2048 ext 2765
Fax:(020)-712 1558

NEW DELHI
Customer Relation Centre
68, Shivaji Marg
New Dehli 110 015
Phone: (020)-712 2048 ext 2765
Fax:(020)-712 1558

INDONESIA

Philips Group of Companies in Indonesia
Consumer Information Centre
Jl.Buncit Raya Kav. 99-100
12510 Jakarta
Phone: (021)-7940040/7984255 Ext 1612
Fax : (021)-7947511 / 7947539

JAPAN

Philips Consumer Electronics
1-11-9,Ebisuminami
Shibuya-Ku
Tokyo 150
Phone: (03)-3719-2235
Fax : (03)-3715-9992

KOREA

Philips Korea Ltd.
Philips House
C.P.O. box 3680
260-199, Itaewon-Dong.
Yongsan-Ku, Seoul 140-202
Phone: 080 600 6600 (Toll Free)
Fax:(02)709 1245

MALAYSIA

Philips Malaysia Sdn. Berhad
Service Dept.
No.51,sect.13 Jalan University.
46200 Petaling Jaya, Selagor.
P.O.box 12163
50768 Kuala Lumpur.
Phone: (03)-7950 5501/02
Fax:(03)-7954 8504

PAKISTAN

KARACHI
Philips Electrical Ind. of Pakistan
Consumer Information Centre
F-54, S.I.T.E, P.O.Box 7101
75730 KARACHI
Phone: (021)-773 1927
Fax:(021)-772 1167

Philips Consumer Service Centre
168-F, Adamjee Road
Rawalpindi Cantt
Phone: (021)-773 1927

Fax:(021)-772 1167

PHILIPPINES

Philips Electronics and Lighting Inc.
106 Valero St., Salcedo Village
Makati, Metro Manilla.
Phone: (02)-888 0572 , Domestic Toll Free:1-800-10-PHILIPS or 1-800-10-744 5477
Fax:(02)-888 0571

SINGAPORE

Philips Singapore Private Ltd.
Consumer Service Dept.
Lorong 1,Toa Payoh., P.O. box 340
Singapore 1231
Phone:6882 3999
Fax:6250 8037

TAIWAN

Philips Taiwan Ltd.
Consumer Information Centre
13F, No. 3-1 Yuan Qu St., Nan Gang Dist.,
Taipei, 115, Taiwan
Phone: 0800-231-099
Fax:(02)-3789 2641

THAILAND

Philips Electronics (Thailand) Ltd.
Philips Service Centre
209/2 Sanpavut Road,
Bangna, Bangkok 10260
Phone : (02)-652 8652
Fax:(02)-614 3531

Africa

MOROCCO

Philips Electronique Maroc
304,BD Mohamed V
Casablanca
Phone: (02)-302992
Fax : (02)-303446

SOUTH AFRICA

South African Philips.
S.V. Div. 195 Main R.D.
Martindale., Johannesburg
P.O.box 58088
Newville 2114
Phone: (011)-4715000
Fax : (011)-4715020

Middle East

DUBAI

Philips Middle East B.V.
Consumer Information Centre
P.O.Box 7785
DUBAI
Phone: (04)-3353666
Fax : (04)-3353999

EGYPT

Philips Egypt
Consumer Information Centre
10, Abdel Rahman El Rafei
Mohandessin - Cairo, P.O.Box 242
DOKKI
Phone: (02)-3313993
Fax : (02)-3492142

PHILIPS Warranty Card 8/16/02 12:38 PM Page 1

It Takes Only A Moment To

PROTECT YOUR INVESTMENT.

Congratulations on investing in a Philips product. It's an important and intelligent decision that's sure to reward you for many years to come. To ensure you'll get all of the privileges and protection that come with your purchase, please complete your Warranty Registration Card within the next ten days.

SIMPLY MAIL THE CARD BELOW TO RECEIVE ALL OF THESE BENEFITS TO WHICH YOU'RE ENTITLED.

WARRANTY VERIFICATION

Your prompt registration verifies your right to protection under the terms and conditions of your warranty.

OWNER CONFIRMATION

Your completed Warranty Registration Card serves as confirmation of ownership in the event of product loss or theft.

MODEL REGISTRATION

Returning the attached card right away guarantees you'll receive all information and special offers for which your purchase makes you eligible. So please act today!

www.philipsusa.com

DETACH AND MAIL PORTION BELOW.

WARRANTY REGISTRATION CARD

MODEL NUMBER | SERIAL NUMBER

Registering your product is an essential step to ensure that you receive all of the benefits you are entitled to as a Philips customer. So complete the information below in ink, and drop this card in the nearest mailbox.

IMPORTANT - RETURN WITHIN TEN DAYS

Date of Purchase: Month / Day / Year

Your Name: First / Initial / Last

Address: Street / Apt. #

City / State / ZIP Code

Retail Price Paid $ .00

(Excluding sales tax, maintenance agreement, delivery, installation, and trade-in allowance.)

Your Phone Number (optional): Area Code / Phone Number

E-mail Address (optional)

PHILIPS

Mail This Card Today To Get The Most From Your Purchase!

❑ No, I do not want to receive personalized offers about Philips products or other information from Philips in the future.

3135 015 07803 rev. 7/02

PHILIPS
PO BOX 1533
DEPOSIT NY 13754-1533

TIME-DATED
MATERIAL
Please Open
Promptly!

PLEASE
APPLY FIRST
CLASS
STAMP

IMPORTANT

PHILIPS
Warranty Registration Card

RETURN THE ATTACHED CARD WITHIN TEN DAYS TO ENSURE YOUR:

- ✓ Warranty Verification
- ✓ Owner Confirmation
- ✓ Model Registration

See Inside For Valuable Benefits!